BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

FILED
08/07/26
04:59 PM
R2506019

Order Instituting Rulemaking to Continue Oversight of Electric Integrated Resource Planning and Procurement Processes.	R.25-06-019

DESERT COMMUNITY ENERGY'S 2026 INTEGRATED RESOURCE PLAN PUBLIC VERSION

Ryan M. F. Baron
Chad Colton
BEST BEST & KRIEGER LLP
18101 Von Karman Avenue
Suite 1000
Irvine, California 92612
(949) 263-6568
ryan.baron@bbklaw.com

Attorneys for
DESERT COMMUNITY ENERGY

August 7, 2026

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Continue Oversight of Electric Integrated Resource Planning and Procurement Processes.	R.25-06-019

DESERT COMMUNITY ENERGY'S 2026 INTEGRATED RESOURCE PLAN PUBLIC VERSION

In accordance with the requirements of California Public Utilities Code Sections 454.51 and 454.52, California Public Utilities Commission Decision 22-02-004 and *Assigned Commissioner and Assigned Administrative Law Judges' Ruling Identifying Issues and Schedule of Review for 2026 Renewables Portfolio Standard Procurement Plans*, issued on January 16, 2026, the *Email Ruling Granting Joint Request for Extension of Load Serving Entity Integrated Resource Plan Filings*, issued on March 9, 2026, and other rulings and guidance in the above-captioned proceeding, Desert Community Energy (DCE), hereby provides its 2026 Integrated Resource Plan (IRP) to the Commission for certification.

DCE is e-filing this document in the instant Rulemaking and serving all parties listed on the Commission's official service list for R.25-06-019. Confidential IRP documents and native-form workbooks are being submitted to Energy Division via the Commission's file transfer protocol concurrently. Included here are the following IRP documents:

- Verification of Tom Kirk
- DCE's IRP Narrative Template (Public Version)
- Resource Data Template Version 3 (Public Version)
- Clean System Power Calculator (Public Version)

- Notice of Availability of the public version of its IRP document

DCE respectfully requests that the Commission certify its 2026 Integrated Resource Plan.

Respectfully submitted,

BEST BEST & KRIEGER LLP



RYAN M. F. BARON

August 7, 2026

DESERT COMMUNITY ENERGY

Doing Our Part to Save the Planet

OFFICER VERIFICATION FORM

I am an officer of the reporting organization herein, and am authorized to make this verification on its behalf. The statements in the foregoing document are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters I believe them to be true. I declare under penalty of perjury that the foregoing is true and correct.

Executed on August 4 2026, at Palm Desert, California.

Tom Kirk, Desert Community Energy
Executive Director

74-199 El Paseo, Suite 100, Palm Desert, CA 92260 | (760) 346-1127
www.DesertCommunityEnergy.org

Public Version

Standard LSE Plan

DESERT COMMUNITY ENERGY

2026 INTEGRATED RESOURCE PLAN

August 10, 2026

Table of Contents

I. Executive Summary 3
II. Study Design 4
a. Objectives 5
b. Methodology 5
i. Modeling Tool(s) 5
ii. Modeling Approach 6
iii. Alternative Assumptions 9
III. Study Results 10
a. Conforming and Alternative Portfolios 10
b. Preferred Conforming Portfolio 19
c. GHG Emissions Results 22
d. Local Air Pollutant Minimization and Disadvantaged Communities 22
i. Local Air Pollutants 22
ii. Focus on Disadvantaged Communities 23
e. Cost and Rate Analysis 26
f. System Reliability Analysis 28
g. Existing Resource Planning 32
h. Hydro Generation Risk Management 32
i. Long-Duration Storage Planning 34
j. Clean Firm Power Planning 35
k. Non-CAISO, including Out-of-State, Wind Planning 36
l. Offshore Wind Planning 36
m. Transmission Planning 36
IV. Action Plan 38
a. Proposed Procurement Activities and Potential Barriers 39
i. Resources to meet IRP mandated procurement requirements, including D.21-06-035 and D.23-02-040: 39

ii. Plans for resources that are currently non-candidate in CPUC's IRPs not described above 40
iii. Other renewable and/or zero carbon resources not described above 40
iv. Other energy storage not described above 41
v. Other demand response not described above 41
vi. Other energy efficiency not described above 41
vii. Other distributed generation not described above 42
viii. Transportation electrification, including any investments that correspond to different levels than what is included in Integrated Energy Policy Report (IEPR) 42
ix. Building electrification, including any investments that correspond to different levels than what is included in Integrated Energy Policy Report (IEPR) 43
x. Potential Centralized Procurement, pursuant to AB-1373 43
xi. Other 43
b. Disadvantaged Communities (DACs) 44
c. LSEs' Tribal Customers 45
d. Procurement Products 45
e. Commission Direction of Actions 47
V. Lessons Learned 47

I. Executive Summary

Desert Community Energy (DCE) is a California joint powers authority (JPA) formed to offer a Community Choice Aggregation (CCA) program in the desert region of Riverside County. DCE was established in October 2017 to meet member agencies' environmental and economic goals including competitive electric rates, greenhouse gas reductions, local control, and local economic benefits. The original JPA was formed among the Cities of Palm Springs, Cathedral City, and Palm Desert. However, the City of Cathedral City withdrew from DCE effective July 1, 2021. While DCE formed in 2017, it only began serving load on April 1, 2020, for one of its member agencies, the City of Palm Springs. The next possible launch date for the City of Palm Desert is 2028.

Desert Community Energy (DCE) developed this 2026 Integrated Resource Plan (IRP) to satisfy California Public Utilities Commission (CPUC) planning requirements while advancing DCE's founding principles of affordability, reliability, local control, and greenhouse gas emissions reductions. The Preferred Portfolio was developed using DCE's assigned load forecast, CPUC greenhouse gas emissions benchmarks, resource adequacy requirements, Renewable Portfolio Standard (RPS) obligations, Mid-Term Reliability (MTR) procurement requirements, and DCE Board-adopted clean energy objectives. Portfolio development incorporated analysis using CPUC's Clean System Power Calculator, the CPUC Resource Cost Workbook, confidential market intelligence and advisory support provided by The Energy Authority (TEA), and DCE's own least-cost, best-fit evaluation framework. The resulting portfolio balances affordability, reliability, and environmental performance while maintaining flexibility to adapt to changing market conditions, resource availability, and regulatory requirements.

DCE's Preferred Portfolio includes a diverse mix of existing and new renewable, carbon-free, and reliability resources. The portfolio builds upon DCE's existing contracted resources, including 44.4 MW of local wind projects, 4 MW of geothermal generation, 43 MW of 4-hour and 21 MW of 8-hour battery storage, demand response, voluntary allocation resources, and AB 1373 resource allocations. Additional planned procurement includes 73 MW of solar paired with 8-hour battery storage, 12 MW of out-of-state wind resources, 11 MW of existing in-state wind resources, hydroelectric resources, and other carbon-free technologies needed to satisfy DCE's long-term procurement objectives. The portfolio meets or exceeds DCE's assigned greenhouse gas emissions benchmarks through 2045, achieves DCE's objective of providing a 100 percent renewable Carbon Free product beginning in 2030, supports DCE's long-term goal of achieving a carbon-free portfolio, and satisfies applicable reliability requirements through a combination of contracted resources, centralized procurement allocations, and resource adequacy purchases. (The Carbon Free product is the default product upon DCE customer enrollment and is currently estimated to be 75% of DCE's load.)

This IRP presents DCE's Preferred Portfolio and the analysis supporting its ability to meet California's long-term clean energy, reliability, and greenhouse gas emissions requirements while advancing DCE's resource planning objectives. The report is organized into four principal sections: Section II describes the

study design and modeling methodology; Section III presents the portfolio results and supporting analyses; Section IV outlines DCE's Action Plan for implementing the portfolio; and Section V summarizes key lessons learned from four IRP planning cycles.

II. Study Design

Desert Community Energy (DCE) is a California joint powers authority (JPA) formed to offer a Community Choice Aggregation (CCA) program in the desert region of Riverside County. DCE was established in October 2017 to meet member agencies' environmental and economic goals including competitive electric rates, greenhouse gas reductions, local control, and local economic benefits. The original JPA was formed among the Cities of Palm Springs, Cathedral City, and Palm Desert. However, the City of Cathedral City withdrew from DCE effective July 1, 2021. While DCE formed in 2017, it only began serving load on April 1, 2020, for one of its member agencies, the City of Palm Springs. The next possible launch date for the City of Palm Desert is 2028

DCE was established with founding principles, as described in the 2017 joint powers agreement, which guide the development of this IRP and related procurement activities:

- Reducing greenhouse gas emissions related to the use of power throughout DCE jurisdictions and neighboring regions;
- Providing electric power and other forms of energy to customers at a competitive cost;
- Carrying out programs to reduce energy consumption;
- Stimulating and sustaining the local economy by developing local jobs in renewable and conventional energy; and
- Promoting long-term electric rate stability, energy security, and reliability for residents through local control of electric generation resources.

DCE developed its Preferred Conforming Portfolio using the Commission-approved load forecast, behind-the-meter solar photovoltaic assumptions, and the assigned greenhouse gas emissions benchmark (0.014 MMT). Annual energy volumes used in the Clean System Power (CSP) Calculator and Resource Data Template are consistent with DCE's assigned load forecast.

Portfolio development was an iterative process that combined Commission-required planning tools with DCE's own procurement experience and Board-adopted policies. DCE evaluated multiple portfolio scenarios using the CSP Calculator, Resource Data Template, and the Commission's Final 2024–2026 IRP inputs and assumptions. In addition to satisfying the assigned greenhouse gas benchmark, DCE considered portfolio diversity, Resource Adequacy requirements, operational flexibility, affordability, implementation risk, existing contractual commitments, and long-term resource availability. DCE also evaluated procurement timing, technology maturity, transmission and interconnection considerations, and the ability of proposed resources to support long-term reliability.

Unless otherwise noted in this narrative, DCE relied on the Commission's default modeling assumptions. Where project-specific information or commercially available data better represented DCE's existing

contracts or expected procurement outcomes, those assumptions were incorporated into the analysis and are identified in the applicable sections of this narrative.

While this IRP satisfies the Commission's planning requirements, DCE recognizes that integrated resource planning is an ongoing process. Future procurement decisions will continue to incorporate updated load forecasts, evolving state policies, market conditions, technological advancements, and Board policy direction to ensure that DCE maintains a reliable, affordable, and sustainable portfolio capable of meeting the needs of its customers over the planning horizon.

a. Objectives

DCE's Integrated Resource Plan (IRP) objectives include the following:

- Report on recent procurement activity, including expected long-term contracts for renewable energy and compliance with the mid-term reliability (MTR) procurement mandates in R.20-05-003 and R.25-06-019 ("MTR Program");
- Quantify what long-term contracts for renewable energy are needed to meet California's contracting requirements, including renewable portfolio standard (RPS) requirements, MTR requirements, and greenhouse gas (GHG) emissions reductions;
- Quantify how much additional "green" power supply is still needed to meet California's 2030 and 2045 GHG emissions reduction goals and the DCE Board's long-term procurement objectives; and
- Guide DCE's future procurement activities such that all California's contracting requirements and DCE Board goals are achieved in a timely fashion.

To meet these objectives, DCE has modeled one preferred conforming portfolio ("Preferred Portfolio"). Further information on the portfolio is provided in Section III of the IRP. The Action Plan in Section IV of the IRP provides further detail on how the IRP will guide DCE's future procurement activities.

b. Methodology

i. Modeling Tool(s)

DCE developed a spreadsheet model to create the Preferred Portfolio in line with DCE's internal procurement goals. DCE relied on the CPUC's Clean System Power (CSP) calculator spreadsheet tool ("CSP calculator") to estimate the emissions from the portfolio. It did not conduct any production cost modeling or portfolio optimization studies. The independent spreadsheet model and CSP calculator results will be provided to the CPUC as part of its IRP submission. DCE also used a spreadsheet to develop a custom hourly dispatch profile for the AB1373 resources, which will also be provided to the CPUC.

ii. Modeling Approach

Load

As part of the 2026 IRP process, each LSE is assigned a retail sales forecast to use for resource planning through 2045. The assigned forecast is based on the 2024 Integrated Energy Policy Report (IEPR). In DCE's case, only Palm Springs' load is included in this IRP. Future IRPs may include expansion, such as if the city of Palm Desert decides to begin serving customers in future years. Because GHG emissions are calculated on an hourly basis in the CSP calculator, an hourly load shape must be applied to the approved annual load forecast. DCE elected to use a mix of the default load shapes provided in the CSP calculator. DCE assumes a mix of 45% commercial and industrial sales and 55% non-commercial and industrial sales based on current sales mix.

GHG Emissions Targets

As part of the 2026 IRP process, each LSE was assigned GHG benchmarks for 2030, 2035, 2040, and 2045. These benchmarks were used for DCE's IRP portfolio planning. All four of the assigned emissions benchmarks are shown in the table below.

Table 1 DCE Assigned Greenhouse Gas Emissions Benchmarks for the 2026 IRP Planning Horizon (MMT CO_2e)

2030	2035	2040	2045
0.040 MMT	0.033 MMT	0.027 MMT	0.014 MMT

DCE Rate Products

DCE currently offers two rate products to its customers. The first option, which is the default option for all new customers, is the Carbon Free product, which provides 100% carbon-free electricity at a premium to SCE's current rates. The second option is Desert Saver, which offers comparable renewable content to SCE's base product at a slightly lower rate. Based on recent opt-down activity, DCE assumed 75% of its sales would be Carbon Free and 25% would be Desert Saver for all years between 2026 and 2045. This is consistent with the 2022 IRP.

Green Energy Portfolio Supply Approach

The portfolios were constructed to capture the following broad procurement goals by DCE:

- DCE's preferred resource types for RPS-qualified procurement are solar, wind, small hydro, and geothermal with carbon-free technology. Biomass/biogas resources are excluded over concern they may have carbon emissions.
- DCE only procures non-RPS qualifying carbon-free energy from existing hydro generation and nuclear, not new large hydro.

- DCE prefers to source green energy from local generation, with preference in the following order: Palm Springs, Riverside County, Southern California, all of California, in Western Electricity Coordinating Council (WECC) but outside California.
- DCE only uses portfolio content category one (PCC1) renewable energy credits (RECs) or PCC0 RECs from the voluntary allocation market offer (VAMO) process to satisfy RPS requirements.
- Long-term renewable contracts are targeted to make up 80%-90% of the renewable portfolio starting in 2030.

DCE modeled three conforming portfolios with different green energy supply goals. The different goals are described below.

High Renewable Portfolio (Selected as Preferred Portfolio)

An aspirational portfolio with ambitious green energy goals that exceed state minimum requirements.

- The Carbon Free product will be 100% renewable by 2030[1] and the Desert Saver product will be 60% renewable by 2030. This is consistent with the 2022 IRP Preferred Portfolio.
- For the interim years between 2026 and 2030, DCE modeled a linearly increasing RPS target for the Carbon Free product. The Desert Saver product was modeled as meeting minimum annual procurement targets for the RPS program, reaching 60% RPS by 2030.
- DCE will be 100% carbon free by 2030[2], fifteen years before the 2045 requirement.
- New long-term PPAs will be with resource types that are also included in the TPP with Updates portfolio and reflect DCE's expectations of resource availability with a preference toward lower-cost resources and DCE's internal procurement goals.

Low Renewable Portfolio

A portfolio intended to reflect compliance with state RPS and green energy standards without exceeding the minimum requirement.

- The Carbon Free product will be 80% renewable by 2030[3], allowing DCE to be compliant with the 60% renewable mandate.
- DCE complies with the following statewide targets: 90% carbon free by 2035, 95% carbon free by 2040, 100% carbon free by 2045[4]. Additional carbon free energy is modeled as large hydro imports.

[1] To avoid any reliance on system power once the 100% goal is reached, this is modeled as 100% of load at the generation busbar.

[2] To avoid any reliance on system power once the 100% goal is reached, this is modeled as 100% of load at the generation busbar.

[3] Modeled as 80% of retail sales

[4] Modeled at the generation busbar consistent with the High Renewable portfolio

- New long-term PPAs will be with resource types that are also included in the TPP with Updates portfolio and reflect DCE's expectations of resource availability with a preference toward lower-cost resources and DCE's internal procurement goals.

High Diversity Portfolio

Modeled as a variant of the High Renewable portfolio, DCE added more geothermal resources to this portfolio to understand the additional reliability value of such resources.

- Same renewable and carbon-free energy targets as the High Renewable portfolio.
- New geothermal resources under long-term PPA are added in 2035, 2038, and 2045. This reduces reliance on new solar + storage and large hydro imports for green energy, as well as natural gas resources for reliability.

Section III of the IRP provides a specific listing of the resources in the Preferred Portfolio. The assumptions used to build the portfolio are described here. The portfolio modeling includes the following known resources that are also modeled as emissions-reducing in the CSP Calculator:

- DCE's executed long-term contracts for renewable energy and standalone storage.
- DCE's allocation of existing renewable resources procured through the VAMO process from SCE.
- DCE's allocation of CAM battery storage resources that are eligible for entry into the CSP calculator.
- DCE's allocation of AB 1373 resources. DCE assumes these resources are available through 2045.
- DCE's allocation of SCE nuclear and hydro GHG-free PCIA resources, modeled through 2045. DCE's GHG-free allocation from Diablo Canyon, though relied on to meet its carbon-free procurement goals in the short-term, was not included in the portfolio per direction from Energy Division Staff. The portfolio still meets the 2030 100% carbon-free goal and all GHG emissions targets without assuming any available energy from Diablo Canyon.

Once the above resources were modeled, DCE needed additional planned resources to meet its aspirational goals. The following assumptions were used to select such resources:

- DCE extends the term of its contracts with existing wind facilities to 2045.
- Long-term RPS contracts were added beginning in 2030 to meet a target of supplying 80–90% of DCE's renewable portfolio through long-term contracts. Contracts reflect the following resource types, based largely on assumed resource availability, need for resource diversity, DCE's planning goals, and need for reliability given the steep drop off in solar and short-duration storage effective load carrying capabilities (ELCCs) provided by the CPUC staff for this IRP cycle:
  - 2030: 100% new solar + 8-hour storage in a co-located one-to-one configuration
  - 2035: 50% new solar + 8-hour storage in a co-located one-to-one configuration; 50% new out-of-state wind
  - 2038: 50% new solar + 8-hour storage in a co-located one-to-one configuration; 50% existing in-state wind in Riverside County.

- To meet the DCE's internal RPS goals through 2045, any needed short-term RPS purchases are modeled using the 2026 VAMO contract resource mix:
  - 60% solar
  - 37% wind
  - 2% geothermal
  - 1% small hydro
- Once the RPS portfolio is modeled, any additional carbon-free energy needed to meet DCE goals is modeled as existing out-of-state hydro.

Resources were modeled using the default profiles in the CSP calculator, except for AB 1373 storage resources. AB 1373 storage resources were modeled using custom hourly profiles as instructed by Energy Division Staff.

Reliability

For reliability modeling, the Preferred Portfolio includes the following:

- Resource adequacy from DCE's executed long-term renewable contracts and an executed contract for demand response. RPS resource contracts are assumed to be extended through 2045.
- DCE's portfolio of short-term RA contracts for 2026.
- DCE's allocated share of resources SCE procured on its behalf in response to D.19-11-016, which DCE has purchased via the one-time allocation opportunity specified in the Modified CAM decision, D.22-05-015.
- Resource adequacy from planned future long-term RPS resources.[5]
- DCE's proportional share of resources subject to the cost allocation mechanism (CAM) except for Diablo Canyon, which is not included per instructions from Energy Division Staff.
- DCE's allocated share of SCE's demand response resources.
- DCE's allocation of AB 1373 resources. This was provided by Energy Division Staff. DCE assumes these resources are available through 2045.
- To the extent there is still a gap in RA procurement needs, DCE assumes it will procure System RA using short-term, RA-only contracts from existing gas resources.

These portfolios are discussed in more detail in the System Reliability Analysis Section of the IRP.

iii. Alternative Assumptions

DCE did not adopt alternative assumptions in place of the Commission's applicable Inputs and Assumptions except where specifically identified in this narrative or where custom inputs were used pursuant to Energy Division Staff direction. DCE also considered cost information from multiple sources, as discussed in the Cost and Rate Analysis section below.

[5] Modeled as contract status planned new

III. Study Results

a. Conforming and Alternative Portfolios

DCE developed three Conforming Portfolios:

- High Renewable Portfolio (Preferred Portfolio)
- Low Renewable Portfolio
- High Diversity Portfolio

DCE elected not to model any Alternative Portfolios. The methodology used to construct the portfolios is described in detail in Section IIb above. Here, DCE provides a listing of all resources included in the portfolios. Although DCE only prepared a complete RDT for the Preferred Portfolio[6], this narrative provides a description of how the portfolios vary.

Each of the three portfolios includes these resources:

- Resources with executed contracts
- VAMO Resources
- Modified CAM (MCAM) Resources
- AB 1373 Resources
- GHG-Free PCIA Resources

All of these resource categories are described in turn below.

Resources with Executed Contracts

DCE has executed renewable contracts for four wind projects and a new geothermal project. It also has executed a contract for demand response, which has been used for MTR compliance and resource adequacy compliance. It also has executed contracts for two standalone battery storage projects. The table below outlines the various characteristics of each contracted resource:

[6] This is in part due to the fact that some detailed modeling of the resource allocations, such as AB 1373 resource modeling, was completed after initial scenario modeling

Table 2 DCE Contracted Resources

Developer	Project	Product	Technology	Contract Start Date	Proposed Size (MW)	Annual Energy Delivery (GWh)	Battery Storage Duration (Hours)
Terra-Gen	East Wind	Energy + Capacity	Existing Wind	January 2023	12.6	34	N/A
Terra-Gen	Coachella Hills	Energy + Capacity	Existing Wind	May 2021	10.8	36	N/A
Terra-Gen	Altwind	Energy + Capacity	Existing Wind	January 2023	9.8	25	N/A
Terra-Gen	Phoenix	Energy + Capacity	Existing Wind	February 2025	11.2	33	N/A
Resi Station LLC (Ohm Connect)[7]	Aggregated Demand Response	Capacity Only	Existing Demand Response	January 2023	4.5	0	N/A
Cape Generating Station I LLC (Fervo Energy)	Cape Station Geothermal	Energy + Capacity	New Geothermal	January 2031	4	27	N/A
Balsam Project LLC (Aypa Power)	Balsam/Dirac Project	TB8 + Capacity	New Standalone Battery	August 2028	21	0	8
Athos Storage, LLC	Athos Storage	TB4 + Capacity	New Standalone Battery	February 2027	43	0	4

The contract terms of the four wind resources and two standalone storage resources are modeled as extended through 2045. All resources labeled as "new" in the table are under development and listed as "development" status within the IRP RDT. Existing resources in the table are modeled as "online" in the RDT.

VAMO Resources

DCE has procured an allocated share of energy and RECs from SCE's portfolio of existing renewable resources through SCE's voluntary allocation in the VAMO process. The amount varies over time, currently 113 GWh in 2026 declining to 0 GWh after 2040 as resources retire. The mix of resource types is variable year-to-year, but in 2026 is 60% solar, 37% wind, 2% geothermal, and 1% small hydro.

[7] DCE has signed an assignment agreement with Resi Station LLC to receive contracted DR from Leap Energy as of July 2026.

Modified CAM (MCAM) Resources

Pursuant to D.22-05-015, DCE has also elected to purchase its share of resource adequacy from ten battery storage facilities that SCE contracted with to meet D.19-11-016 requirements. All resources are four-hour lithium-ion battery projects with start dates between 2021 and 2023.

AB 1373 Resources

New to this IRP, DCE has included its allocated share of resources DWR will procure pursuant to AB 1373. The amount included follows instructions from Energy Division Staff procurement assumptions. Contracts are assumed to extend through 2045. See table below for assumed AB1373 resource allocation to DCE.

Table 3 DCE Allocated Share of AB1373 Resources

	Contract Begins	Size (MW)
Multi-day Storage	2032	1.0
	2033	1.0
Long-duration Storage	2034	1.0
	2035	1.0
Geothermal	2032	1.0
	2035	1.0
Offshore Wind Morro Bay	2036	3.2
	2038	3.0
Offshore Wind Humboldt	2041	3.4
	2042	2.1
	2043	2.1
	2044	2.1

GHG-free PCIA Resources

DCE's portfolio includes its allocated share of SCE's nuclear and large hydro PCIA resources. DCE assumed that SCE's current 2027 forecast of DCE's allocated share of such resources remains constant through 2045: 13 GWh of hydro and 25 GWh of nuclear annually. DCE also receives approximately 38 GWh of GHG-free energy from Diablo Canyon, which was excluded from the portfolio.

For the resource categories below, the amount included varies by scenario modeled.

New Long-Term Contracts

DCE includes several new long-term RPS contracts in its portfolios to meet its long-term procurement targets. The tables below summarize the results for each portfolio. Contracts are assumed to start

January 1 of the year listed in the table for ease of modeling. Each contract is modeled as online through the end of the 2045 modeling period.

The Low Renewable scenario includes fewer new contracts, reflecting the lower RPS target. While both the High Renewable and High Diversity scenarios eliminate reliance on system power on an annual basis beginning in 2030, the mix of technologies is different over time, with the High Diversity scenario adding less storage + solar and more geothermal resources.

Table 4 New Long-Term Contracts Modeled in High Renewable Scenario. Selected as Preferred Portfolio

		Contract Begins	**Size (MW)**
New Resources	Solar + 8-hour Storage	2030	49 (solar) + 49 (storage)
		2035	13 (solar) + 13 (storage)
		2038	11 (solar) + 11 (storage)
	Out-of-State Wind	2035	12
Existing Resources	In-State Wind	2038	11

Table 5 New Long-Term Contracts Modeled in Low Renewable Scenario

		Contract Begins	**Size (MW)**
New Resources	Solar + 8-hour Storage	2035	8 (solar) + 8 (storage)
		2038	7 (solar) + 7 (storage)
	Out-of-State Wind	2035	7
Existing Resources	In-State Wind	2038	8

Table 6 New Long-Term Contracts Modeled in High Diversity Scenario

		Contract Begins	**Size (MW)**
New Resources	Solar + 8-hour Storage	2030	49 (solar) + 49 (storage)
	Out-of-State Wind	2035	12

		Contract Begins	Size (MW)
	Geothermal	2035	5
		2038	4
		2045	5
Existing Resources	In-State Wind	2038	11

Short-term RPS

DCE relies on short-term RPS purchases in the years between 2027-2029 until new capacity under long-term contract can come online in 2030. Thereafter, because DCE targets long-term RPS to meet 80% to 90% of its RPS target, there is a small amount remaining that is supplied from short-term RPS purchases of existing resources, which varies year-to-year. These are modeled as one-year contract terms for modeling simplicity. The mix of resources each year reflects the 2026 VAMO mix provided above.

Because the High Diversity and High Renewable scenarios have the same renewable procurement goals, the amount of reliance on short-term RPS is the same for those portfolios. The Low Renewable portfolio has lower amounts of short-term renewable purchases (and lower amounts of long-term renewable purchases as shown above). The total amount of short-term RPS purchases for the scenarios are shown in the table below for select years.

Table 7 Amount of Total Annual Short-Term RPS Purchases by Scenario in Select Years (GWh)

	2030	2035	2040	2045
High Renewable and High Diversity	42	52	89	89
Low Renewable	28	32	68	54

Short-term Large Hydro

Short-term purchases of imported large hydro resources are assumed to make up the difference between DCE's carbon free energy target and the RPS energy target each year. This makes up 3%-5% of DCE's High Renewable portfolio starting in 2030.[8] Hydro reliance in 2045 is reduced in the High Diversity Portfolio, as new geothermal substitutes for hydro purchases that year. The Low Renewable portfolio

[8] Expressed as a percentage of busbar load.

relies much more on hydro to meet carbon-free goals, representing 39% of the portfolio in 2045.[9] The annual amounts for select years for each scenario are shown in the table below.

Table 8 Amount of Total Annual Short-Term Large Hydro Imports by Scenario in Select Years (GWh)

	2030	**2035**	**2040**	**2045**
High Renewable	15	27	35	39
High Diversity	15	27	35	0
Low Renewable	49	165	221	272

Other Resources

DCE's portfolio also includes its share of CAM resources and enough capacity from existing gas generation to meet any remaining reliability. The amount of gas generation included in the High Renewable portfolio is discussed in more detail in the System Reliability Analysis section of the IRP. Although DCE elected not to model a detailed RDT for the other two portfolios, qualitatively, the Low Renewable portfolio would increase reliance on gas generation because a lower amount of reliability is supplied by long-term PPAs for clean RPS resources. The High Diversity scenario decreases reliance on gas generation due to the additions of geothermal capacity. The reduced reliance on natural gas generation for the High Diversity scenario compared to the High Renewable scenario is quantified for year 2045 in the table below. As the table shows, the High Diversity scenario includes 4 MW less natural gas capacity on a nameplate basis than the High Renewable scenario in 2045.

Table 9 Net reduction in 2045 of Short-Term Purchases of Natural Gas Capacity in High Diversity Scenario Compared to the High Renewable Scenario

	Nameplate MW	**ELCC**	**ELCC-MW**
Reduced Solar Generation	-24	11%	-3
Reduced 8-hour Battery	-24	32%	-8
Increased Geothermal	15	90%	13
Net Reduction in Natural Gas Generation	4	85%	3

[9] Expressed as a percentage of busbar load.

Portfolio Results Summary

The figure below shows the mix of resources included in the High Renewable portfolio (Preferred Portfolio) over time on an annual energy basis. The impact of the aspirational goals is noticeable in the 2030 results, as large resource additions reduce reliance on system power in that year. After that time, incremental new resources are added to meet increased load, but the resource mix remains relatively stable.

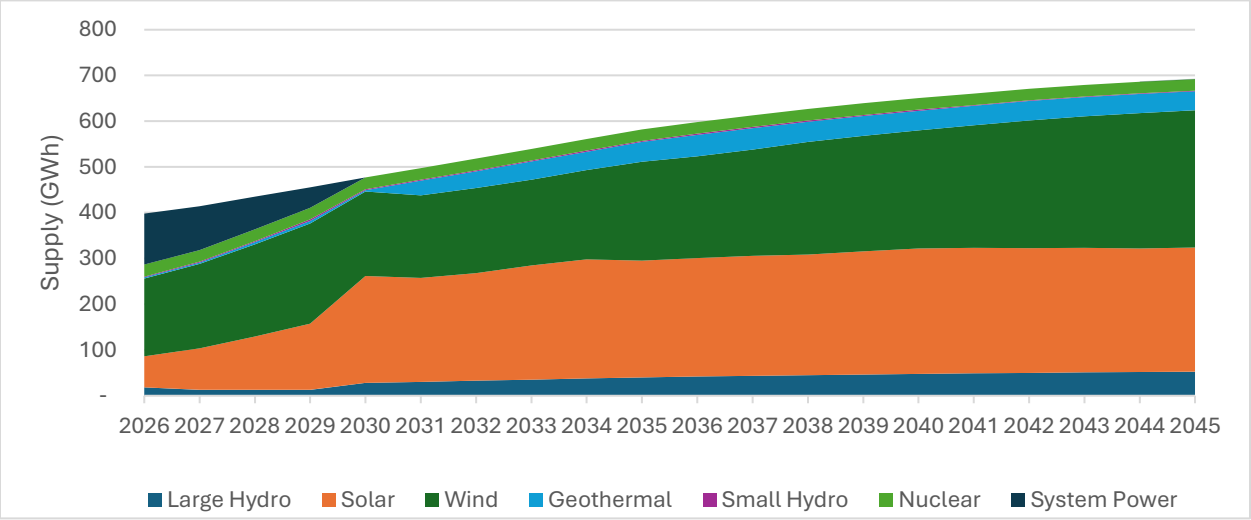


Figure 1 High Renewable Scenario Annual Energy Balance

A similar chart for the Low Renewable scenario is shown below. This chart shows the increasing reliance on large hydro generation over time to meet carbon-free energy goals. System power reliance is also reduced more gradually.

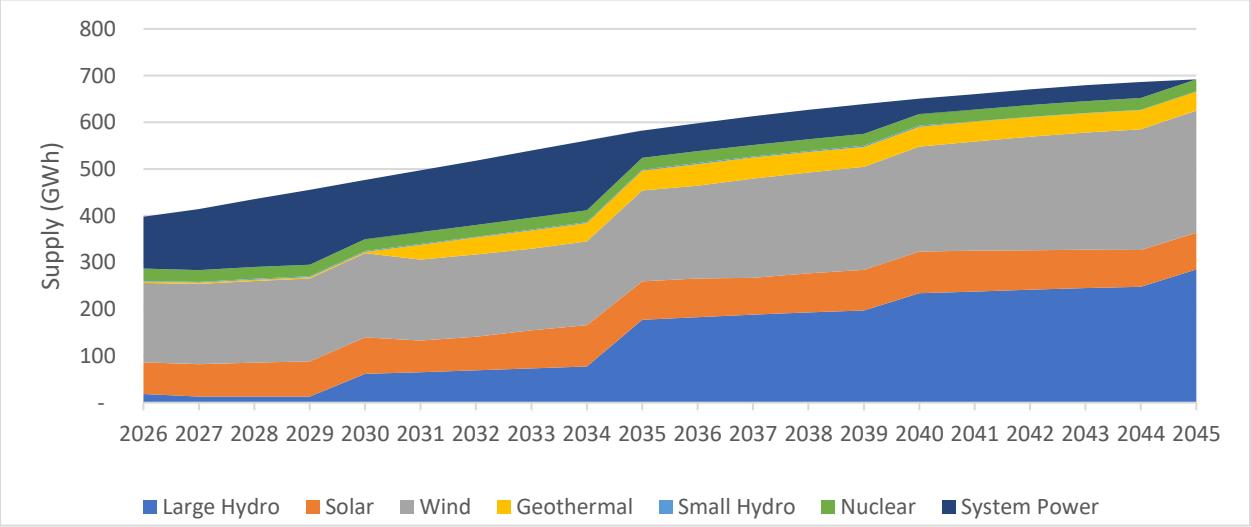


Figure 2 Low Renewable Scenario Annual Energy Balance

Finally, similar results for the High Diversity scenario are provided in the chart below. Like the High Renewable scenario, the ambitious green energy goals reduce system power reliance in 2030. However, the system power mix changes over time, favoring more geothermal and less solar and hydro.

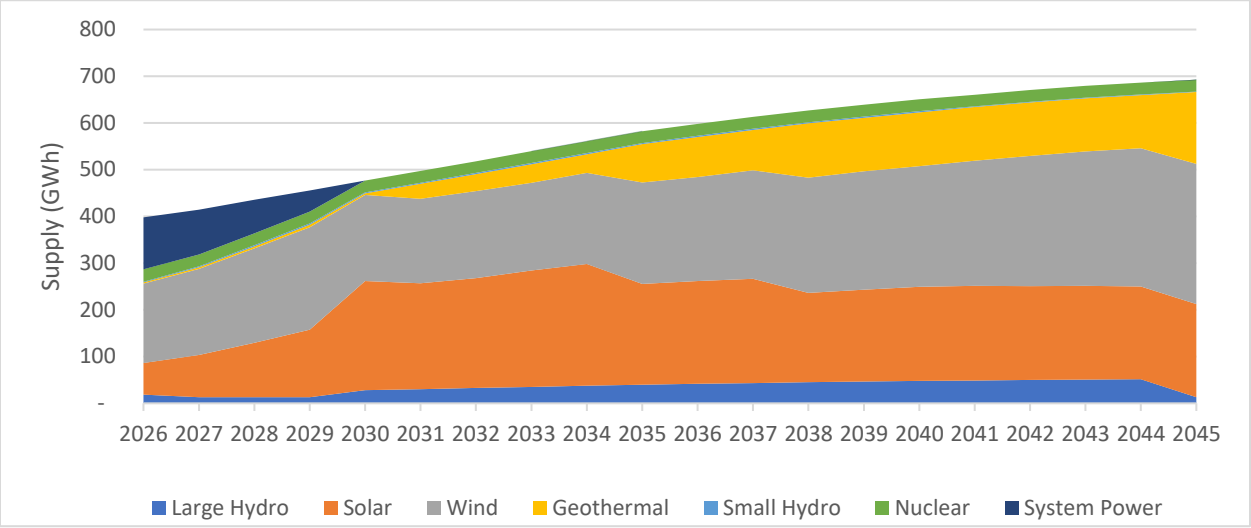


Figure 3 High Diversity Scenario Annual Energy Balance

Comparison of New Resources to 2025-2026 TPP Portfolio with Updates

DCE's Preferred Portfolio includes new resources of the following types:

- Solar paired with battery storage
- Out-of-state wind
- Geothermal
- Standalone storage

Through its allocation of AB 1373 resources procured by DWR, the Preferred Portfolio also includes:

- Multi-day storage
- Standalone long-duration energy storage (modeled as 24-hour duration)
- Additional geothermal
- Offshore wind

The 2025–2026 TPP Portfolio with Updates, developed through the CPUC's RESOLVE modeling, serves as the reference portfolio for LSE resource planning. DCE's Preferred Portfolio includes most of the resource technologies represented in the TPP Portfolio with Updates, including geothermal, out-of-state wind, solar, and long-duration storage. However, there are several notable differences. The TPP Portfolio with Updates includes new biomass resources, new in-state wind resources, and location-constrained 12-hour storage, whereas DCE's portfolio does not. DCE does not include biomass because it is not a preferred resource under the Board's adopted procurement goals. DCE also does not include new in-state wind because of the limited development opportunities currently available in California.

While repowering existing wind facilities in Riverside County may present future opportunities to expand in-state wind generation, these opportunities are not assumed in the Preferred Portfolio. Similarly, DCE does not directly procure location-constrained 12-hour storage because those resources are expected to be procured centrally by the Department of Water Resources (DWR), if needed.

The primary difference between the two portfolios is DCE's greater reliance on energy storage paired with renewable resources. Compared to the TPP Portfolio with Updates, DCE's Preferred Portfolio includes a higher proportion of battery storage for each increment of new solar capacity, reflecting DCE's strategy to reduce reliance on gas-fired capacity while maintaining system reliability. In addition, DCE's portfolio includes a small amount of generic 24-hour and 100-hour storage and a limited quantity of offshore wind by 2045 to diversify the long-term resource mix.

Table 10 compares the new resource additions included in DCE's Preferred Portfolio with those in the 2025–2026 TPP Portfolio with Updates.

Table 10 Comparison of New Resources Between DCE Preferred Portfolio and TPP Portfolio with Updates

		TPP With Updates		DCE		TPP With Updates		DCE	
		2035		2035		2045		2045	
Biomass	*MW*	12	0.0%	-	0.0%	12	0.0%	-	0.0%
Geothermal (Includes Enhanced Geo.)	*MW*	3,199	3.5%	6	2.9%	3,904	2.6%	6	2.4%
Wind	*MW*	6,250	6.8%	-	0.0%	10,949	7.2%	-	0.0%
Wind OOS New Tx	*MW*	7,036	7.6%	12	5.7%	19,036	12.4%	12	4.8%
Offshore Wind	*MW*	-	0.0%	-	0.0%	-	0.0%	16	6.5%
Solar	*MW*	53,429	57.9%	62	29.5%	82,732	54.1%	73	29.4%
Li-ion Battery (4-hr)	*MW*	4,418	4.8%	43	20.5%	6,758	4.4%	43	17.3%
Li-ion Battery (8-hr)	*MW*	14,030	15.2%	83	39.5%	21,102	13.8%	94	37.9%
Location Constrained Storage (12-hr)	*MW*	3,940	4.3%	-	0.0%	8,499	5.6%	-	0.0%
Generic Storage (24-hr)	*MW*	-	0.0%	2	1.0%	-	0.0%	2	0.8%
Generic Storage (100-hr)	*MW*	-	0.0%	2	1.0%	-	0.0%	2	0.8%
Total New Resources	*MW*	92,314	100.0%	210	100.0%	152,991	100.0%	248	100.0%

b. Preferred Conforming Portfolio

DCE selected the High Renewable portfolio as the Preferred Portfolio for the 2026 IRP because it best aligns with DCE's long-term policy objectives while remaining consistent with expected resource availability and state planning assumptions. The portfolio achieves DCE's aspirational goal of a 100% carbon-free wholesale portfolio by 2030, including a 100% renewable Carbon Free product and a 60% renewable Desert Saver product, while relying on resource types included in the 2025–2026 TPP Portfolio with Updates. Compared with the Low Renewable Portfolio, it reduces long-term reliance on imported large hydro and system power, and compared with the High Diversity Portfolio, it achieves similar clean energy objectives with a lower reliance on emerging geothermal resources. Accordingly, DCE determined that the High Renewable Portfolio provides the best balance of affordability, reliability, procurement feasibility, and progress toward DCE's long-term clean energy goals.

DCE submits its Preferred Portfolio to the CPUC for certification. DCE describes the ambitious goals used to create the portfolio in Section II.a above. This portfolio is designed to address all the requirements in Public Utility Code Section 454.52(a)(1) as described below.

GHG Reduction Goals

Based on the output of the Clean System Power calculator, the GHG emissions from DCE's Preferred Portfolio are equal to or less than the Commission's assigned benchmarks as shown in Section III.c of the IRP. Thus, DCE's Preferred Portfolio meets the Section 454.52(a)(1)(A) goal of reducing GHG emissions to meet state GHG reduction mandates.

Renewable Energy

Section 454.52(a)(1)(B) states that portfolios must be composed of at least 60% eligible renewable resources by 2030. DCE has its own internal green energy procurement goals that exceed this minimum standard, including a 100% renewable energy target by 2030 for its Carbon Free product. Thus, starting in 2030, the Preferred Portfolio sources 89% of annual wholesale energy purchases from renewable resources, exceeding the minimum 60% of retail sales renewable requirement.

Minimizing Bill Impact

Section 454.52(a)(1)(D) requires LSEs to select resources to minimize the impact of planned procurement on ratepayers' bills. Rate competitiveness is one of DCE's rate setting objectives. DCE conducts competitive solicitations to ensure selection of cost competitive resources. DCE expects to meet its current procurement objectives as embedded in Preferred Portfolio as well as its rate objectives. More discussion of DCE's rate setting process and objectives can be found in Section III.e of the IRP.

Ensuring System and Local Reliability

Section 454.52(a)(1)(E) states that LSEs must plan to meet system and local reliability as part of their IRPs. DCE has prepared a forecast of how it plans to meet adequate reliability requirements as detailed in Section III.f of the IRP. As discussed in more detail in that section, DCE's reliability portfolio includes RA purchased under long-term contract from renewable and battery resources as well as short-term RA-only contracts. DCE also commits to meeting all local RA requirements, except for those local RA requirements that must be contracted by the central procurement entity.

Long-Term Contract Procurement

Section 454.52(a)(1)(F) of the California Public Utilities Code states that portfolios must meet long-term contracting requirements under the RPS standard. DCE has modeled 80-90% of all renewable purchases as secured through long-term contracts, exceeding the minimum requirement.

Diversity, Sustainability, and Resilience of Transmission, Distribution, and Local Communities

Consistent with the goals in Section 454.52(a)(1)(G), DCE has selected a diverse set of resources for its Preferred Portfolio, including solar, wind, small hydro, geothermal, demand response, and battery storage resources. DCE also has a preference for developing local renewable energy resources in the Palm Springs area, which would reduce the need for long-distance transmission lines to serve its load. DCE also offers a net energy metering program to support behind-the-meter resource development, which can enhance system resilience at the distribution level. DCE is also exploring additional programs to enhance distributed generation development and grid resiliency as described in Section IV.a of the IRP.

Demand-Side Energy Management

Section 454.52(a)(1)(H) states portfolios must have a goal of enhancing demand-side energy management. DCE includes its contract for a demand response (DR) program directly in its conforming portfolio, which is now serving customers. Section IV.a of the IRP also provides a list of energy programs DCE is exploring, which include demand-side energy management programs, such as transportation electrification and energy efficiency. DCE customers also remain eligible for demand-side energy management programs run by SCE.

Minimizing Localized Air Pollutants with Emphasis on Disadvantaged Communities (DACs)

Section 454.52(a)(1)(I) requires LSE portfolios to minimize local air pollutants with an emphasis on disadvantaged communities. The CSP Calculator results for criteria air pollutants associated with DCE's Preferred Portfolio are provided in Section III.d.i. The reported emissions are associated with system-level generation attributed to DCE through the CSP Calculator rather than localized emissions from DCE's contracted renewable generation resources. DCE seeks to reduce these emissions through its renewable procurement goals, including a 100% renewable Carbon Free product beginning in 2030. DCE does not currently serve any census tracts designated as disadvantaged communities under the applicable

CalEnviroScreen criteria; however, its service area includes Tribal lands of the Agua Caliente Band of Cahuilla Indians, which are considered disadvantaged communities for IRP purposes. DCE also conducts outreach to low-income communities and has adopted procurement guidelines promoting local employment and business opportunities. Further discussion is provided in Sections III.d.ii and IV.b.

Portfolio Diversity

Section 454.52(a)(1)(J) requires LSEs to procure diverse portfolios of energy resources, including resources procured by DWR. The assumed DWR resources are included in the Preferred Portfolio, which adds significant resource diversity. DCE's Preferred Portfolio also includes a mix of resource types, including solar, wind, battery storage, hydro, and geothermal from new and existing resources under long and short-term contracts. This diversity helps meet all of DCE's other IRP goals, balancing objectives for affordability, green energy, and reliability.

Portfolio Operations

As shown in the next section, the Preferred Portfolio has emissions below its assigned GHG benchmarks. From a reliability perspective, DCE anticipates this portfolio will operate essentially the same regardless of whether other LSEs procure in a manner consistent with assigned GHG targets for the following reasons:

- Its new solar resources will all be backed by 8-hour battery storage to reduce curtailment and shift renewable generation to higher-value and reliability-critical hours.
- DCE plans to have RA-only contracts with natural gas resources to support grid reliability and meet the assigned reliability targets for the 2026 IRP.

DCE acknowledges that increased procurement of wind, solar, and battery resources could cause the effective load-carrying capability of those resource types to decrease but did not attempt to quantify that for purposes of this IRP. However, DCE emphasizes its commitment to meeting all CPUC reliability requirements in its future procurement. DCE acknowledges the uncertainty in those requirements and may need to change its future procurement targets to accommodate those requirements.

Comparison to 2022 IRP

DCE's 2026 IRP Preferred Portfolio differs from the portfolios approved in the 2022 IRP due to the following reasons:

- Cancellation of the Deer Creek solar + storage contract and the need to replace it to meet MTR requirements.
- Cancellation of the NextEra storage contract and its subsequent replacement with the Balsam/Dirac contract.
- Inclusion of GHG-free energy allocations and modest reliance on imported hydro purchases to meet a 100% carbon free target in 2030.

- Higher load growth, requiring more purchases.
- Inclusion of the AB 1373 resources approved after the 2022 IRP was submitted.
- Increased efforts on customer programs, such as the Community Energy Savings program, Calpine Community Benefits Grants, and the City of Palm Springs residential program.
- Incorporation of goal to achieve a zero-carbon wholesale portfolio by 2030, with the Carbon Free product supplied by 100% renewable energy.

c. GHG Emissions Results

The table below shows the GHG emissions results for the Preferred Portfolio as output by the CPUC's CSP Calculator. (The load modeling assumptions used for the calculator are described in Section II.b above.) The negative emissions values beginning in 2035 reflect the accounting methodology used by the CPUC's CSP Calculator rather than physical negative emissions. Under the calculator, excess clean generation beyond DCE's customer load is credited against emissions associated with system power on an hourly basis. Because DCE's Preferred Portfolio is designed to eliminate reliance on system power on an annual basis, the hourly accounting can sometimes result in net negative emissions values.

Table 11 Preferred Portfolio GHG Emissions Results

CO2	**Unit**	**2028**	**2030**	**2035**	**2040**	**2045**
Benchmark	MMT/yr	N/A	0.040	0.033	0.027	0.014
Preferred Portfolio	MMT/yr	0.036	0.002	-0.011	-0.020	-0.005

DCE modeled AB 1373 storage resources using custom hourly profiles as directed by CPUC staff. Geothermal and offshore wind profiles reflect defaults provided in the CSP calculator. Storage profiles were generated by assuming resources charge during periods of curtailment and discharge during periods with high marginal emissions rates as modeled in the calculator. This has the effect of lowering the GHG emissions.

d. Local Air Pollutant Minimization and Disadvantaged Communities

i. Local Air Pollutants

The Coachella Valley desert climate creates excellent conditions for renewable energy development. There is a significant amount of generation already in the Coachella Valley, especially near North Palm Springs. This includes multiple wind farms, several solar farms and natural gas-fired plants, as well as one small hydro plant. The largest natural gas-fired station in the local area is the Sentinel Energy Center, an 800 MW facility in North Palm Springs.

The table below shows emissions results for local criteria air pollutants for the Preferred Portfolio. Results are generated by the CPUC CSP calculator using assumed hourly emissions rates. The reported

emissions are associated with system-level generation attributed to DCE through the CSP Calculator rather than emissions from DCE-owned generation, and thus will be spread throughout the state of California, and not just the Coachella Valley. DCE expects to reduce reliance on system power through its aggressive renewable energy procurement goals.

Table 12 summarizes the estimated criteria air pollutant emissions for DCE's Preferred Portfolio as calculated by the CPUC CSP Calculator. The results reflect emissions associated with system power and show declining emissions over the planning horizon as DCE reduces its reliance on system power.

Table 12 Emissions Results for Local Criteria Air Pollutants for Preferred Portfolio

			2028	**2030**	**2035**	**2040**	**2045**
Preferred Portfolio	PM2.5	tonnes/yr	2.2	0.1	-1.0	-1.4	-0.3
	SO2	tonnes/yr	0.2	0.0	-0.1	-0.1	-0.0
	NOx	tonnes/yr	3.4	1.5	-0.0	-0.1	-0.3

Similarly, as for GHG emissions, negative values for certain criteria air pollutants are a result of the CPUC CSP Calculator's accounting methodology. The calculator credits excess clean generation against emissions associated with system power on an hourly basis using pollutant-specific emissions rates. As DCE's Preferred Portfolio reduces reliance on system power, this hourly accounting can produce net negative values for PM2.5, SO_2, and NO_x.

ii. Focus on Disadvantaged Communities

DCE's member-agency territory encompasses Palm Springs and Palm Desert; DCE currently provides electric generation service only within Palm Springs. DCE identified 32 census tracts that at least partially overlap with Palm Springs and Palm Desert. Except for the Tribal lands discussed below, there are no census tracts within DCE's service area that are designated as disadvantaged communities under the IRP definition adopted by CalEPA.

However, there are 12 census tracts that at least partially overlap with areas considered low income under AB 1550. Figure 4 shows these areas graphically.

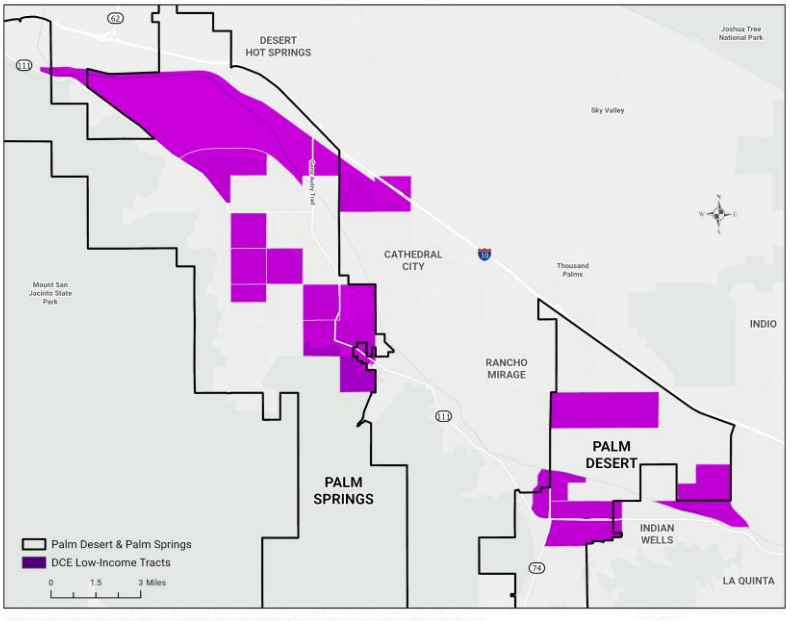


Figure 4 Map of Low-Income Communities in DCE Service Territory

The DCE service territory includes Tribal lands of the Agua Caliente Band of Cahuilla Indians (ACBCI). For purposes of the IRP, these Tribal lands are considered a disadvantaged community. Figure 5 shows these Tribal lands and their overlap with the low-income communities in DCE service territory.

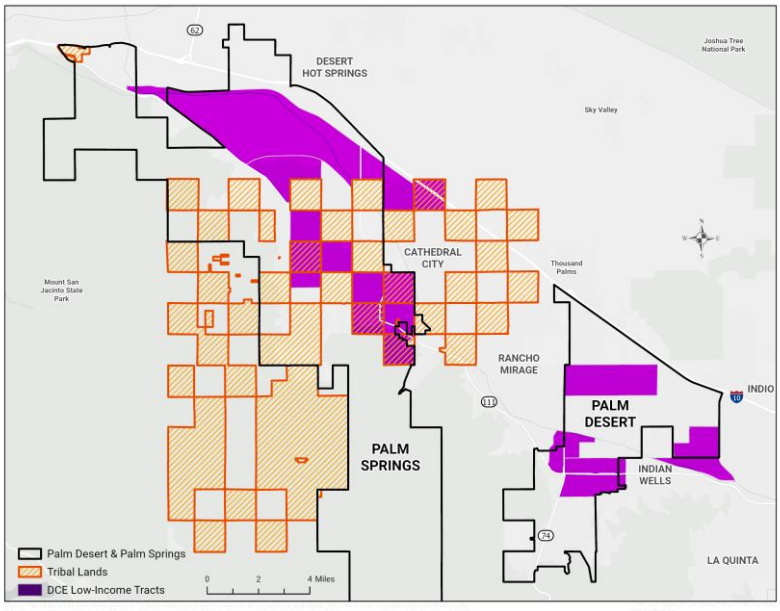


Figure 5 Map of Tribal Lands and Low-Income Communities in DCE Service Territory

Due to the checkerboard pattern of the Tribal Lands, these lands are occupied by non-tribal Palm Springs residents and businesses pursuant to long-term land leases (up to 99 years), and those residents and businesses would not separately qualify as a disadvantaged community.

DCE recognizes the importance of considering equity and environmental justice in resource planning. Although DCE does not currently apply formal disadvantaged community-specific scoring metrics within its least-cost best-fit evaluation, the portfolio evaluation considered environmental performance alongside affordability, reliability, and procurement feasibility. Although DCE does not serve any disadvantaged communities based on the definition used for IRP purposes (except for the Tribal lands noted above), the greenhouse gas emissions reduction and air quality improvements associated with DCE's Preferred Portfolio are expected to benefit DACs statewide by reducing reliance on fossil-fueled generation resources that contribute to criteria air pollutants (e.g., NOx, PM2.5) and greenhouse gas emissions.

DCE has also focused on programs that would assist income-eligible customers, including customers residing in low-income communities. In 2020, DCE initiated an outreach program to encourage income eligible customers who are not currently enrolled in utility discount programs. These programs include California Alternate Rates for Energy (CARE) that reduces energy bills for eligible customers by about 30% and Family Electric Rate Assistance (FERA) which provides an approximate 18% bill discount. CARE, FERA and Medical Baseline customers account for approximately 19% of all customers in Palm Springs.

DCE procurement efforts have emphasized local projects that will bring local jobs and economic benefits to the community. In July 2022, the DCE Board adopted a procurement policy. For procurements that are solely for DCE, it is the policy of DCE to promote employment and business opportunities for residents and local businesses on all contracts and give preference to local residents, workers, businesses, contractors, and consultants to the extent consistent with the law and the interests of DCE and its customers.

In developing its Preferred Portfolio, DCE evaluated environmental performance alongside affordability, reliability, and procurement feasibility, including the effects of portfolio choices on greenhouse gas emissions and local air pollutant impacts affecting disadvantaged communities. DCE does not currently apply formal disadvantaged community-specific bid evaluation metrics in its procurement process, but DCE's procurement process prioritizes renewable and zero-emitting resources that reduce reliance on fossil-fueled generation and therefore support statewide reductions in greenhouse gas emissions and criteria air pollutants, including in disadvantaged communities.

DCE has four wind projects under contract with TerraGen in northern Palm Springs. While no CalEnviroScreen-designated DAC census tracts are located within five miles of the facilities, portions of the Agua Caliente Band of Cahuilla Indians Tribal Lands are located within the five-mile study area. These Tribal lands are considered disadvantaged communities for IRP purposes. The TerraGen facilities are operating wind generation projects that do not produce combustion-related air pollutant emissions

during normal operation and therefore are not expected to adversely affect nearby disadvantaged communities.

In addition, DCE has signed two battery storage projects in California. The Balsam/Dirac Battery Energy Storage Facility is in Chino, California (Census Tract 6071000504), which has a CalEnviroScreen 4.0 Overall Percentile of 59 and is not designated as a disadvantaged community. However, the five-mile study area encompasses portions of Chino, Ontario, Montclair, and Pomona, where numerous disadvantaged community census tracts are present. Many of these communities rank above the 90th percentile statewide due to a combination of elevated cumulative pollution burdens and population vulnerability indicators. Although disadvantaged communities are located within five miles of the project, the battery storage facility does not involve combustion during normal operation and therefore is not expected to generate localized criteria air pollutant emissions affecting nearby communities. The Athos Storage Project is in Desert Center, California (Census Tract 6065046900), which has a CalEnviroScreen 4.0 Overall Percentile of 57 and is not designated as a disadvantaged community. A review of the surrounding five-mile study area did not identify any disadvantaged community census tracts, legacy DAC census tracts, or Tribal Lands as defined for IRP purposes. As a battery energy storage facility, the project does not generate criteria air pollutant emissions during normal operation.

Fervo Energy, Cape Station project is in Beaver County, Utah and therefore is not subject to CalEPA disadvantaged community definitions used in California's Integrated Resource Planning process. However, as a zero-emitting geothermal resource, it does not contribute to criteria air pollutants during operation.

e. Cost and Rate Analysis

Providing power at competitive rates is one of DCE's founding principles. DCE has adopted retail rates pursuant to the Rate Stabilization Schedule (RSS) adopted by the DCE Board. Under the current RSS, Desert Saver rates are designed to provide an average total bill discount of 0–1% relative to SCE's comparable bundled service. The Carbon Free rate is designed to recover the revenue requirement associated with providing the Carbon Free product, as identified through DCE's annual budget process. Currently the Carbon Free product has an average total bill premium of 20.18% relative to SCE's bundled residential service, averaged across the residential customer classes, with a planned reduction to approximately 10.66% beginning in 2027. Actual rates are established annually by the DCE Board and may vary from these targets based on procurement costs, forecast sales, market conditions, and other revenue requirement considerations.

Rate setting is conducted through an open and transparent public process culminating in a Board decision, and the Board retains the authority to modify rates at any time if circumstances warrant. Pursuant to the current RSS, DCE's domestic (residential) generation rates effective July 1, 2026 are $0.09379/kWh for Desert Saver customers and $0.16787/kWh for customers electing Carbon Free service. Current rates for all customer classes are available on DCE's website. See https://desertcommunityenergy.org/billing-rates/

DCE offers a NEM program that matches SCE's rates for surplus production exported to the grid. DCE also continues SCE's FERA, CARE, and Medical Baseline programs for low-income customers and those with medical limitations. Such customers are enrolled in the lower Desert Saver rate unless they opt up to the Carbon Free rate.

In developing its Preferred Portfolio, DCE evaluated the relative cost implications of its resource mix using standardized resource cost assumptions, market information, and its existing procurement experience. The analysis was used to evaluate the relative affordability of portfolio alternatives rather than to forecast future retail rates. While precise retail rate impacts are subject to uncertainty, the analysis provides directional insight into relative cost differences across modeled portfolios.

Consistent with CPUC IRP requirements, DCE's cost analysis assumes that other load-serving entities procure resources consistent with the 2025-2026 TPP Reference Portfolio, thereby reflecting expected statewide market conditions, resource availability, and system needs.

In developing its Preferred Portfolio, DCE utilized the California Public Utilities Commission's Resource Cost Workbook as a primary source of standardized assumptions regarding the expected cost and performance of future generation, storage, and other resource technologies. The Resource Cost Workbook provides technology-specific estimates of capital costs, fixed and variable operating costs, resource lifetimes, and expected cost trajectories over time, allowing DCE to evaluate the relative cost-effectiveness of resource options on a consistent basis. These assumptions were used to inform portfolio development and assess the long-term affordability implications of different resource mixes while maintaining compliance with state reliability and greenhouse gas reduction requirements.

DCE supplemented the CPUC's planning assumptions with market intelligence and advisory support provided by The Energy Authority (TEA). TEA provided information on resource availability, prevailing market conditions, and emerging procurement opportunities, and advised DCE on how prospective resources could complement its existing portfolio, load profile, and long-term procurement objectives. This market perspective helped DCE identify resource types and procurement timing that were expected to support reliability, affordability, and regulatory compliance while accounting for evolving market conditions.

The resulting Preferred Portfolio reflects DCE's objective of meeting state planning requirements at the lowest reasonable cost to customers while maintaining flexibility to respond to changing market conditions. Portfolio development prioritized a diverse mix of renewable generation, energy storage, and other carbon-free resources that complement DCE's existing portfolio and support long-term reliability and greenhouse gas reduction goals. By combining CPUC-developed planning assumptions with TEA's market intelligence and DCE staff's evaluation of procurement needs, DCE developed a portfolio intended to balance affordability, reliability, and environmental performance while supporting DCE's long-standing goal of maintaining competitive rates for its customers.

DCE works with TEA to evaluate contracts, including robust quantitative modeling of costs and risk prior to contract execution. As part of the bid evaluation process, a thorough quantitative analysis is undertaken by DCE and TEA staff to determine which projects (and their specific bid variation(s)) present the highest likelihood of value for DCE's portfolio.

This analysis includes quantitative scoring of each project bid variation's marginal net present value, based on the project's expected generation and resource adequacy value in several different scenarios of future market prices. The quantitative evaluation also looks at how closely each offer's hourly generation coincides with DCE's projected hourly load, potential grid congestion costs, and the impact of negative pricing events due to overgeneration.

Key drivers of cost and rate impacts identified in DCE's analysis include:

- Timing and cost of new resources, particularly renewable and storage resources
- Renewable Energy Credit (RECs) costs
- Reliance on market purchases versus long-term contracts
- Resource adequacy (RA) requirements and evolving capacity accreditation methodologies (ELCC)
- Exposure to market price volatility, including negative pricing events and congestion costs.

All planned resources in the IRP Preferred Portfolio will be subject to this quantitative assessment prior to contract execution, and this analysis will serve to verify whether the resources selected for IRP modeling purposes meet the least cost best fit criteria.

For instance, for IRP modeling purposes, the Preferred Portfolio includes additional existing local wind resources in 2038. This is in part due to DCE's past success in contracting for such resources and knowledge that they meet DCE's preference for local generation, while also being competitive on cost. But this assumption will be tested for all contracts, and DCE may select an alternative resource type if it finds it scores better in its evaluation. Accordingly, resources included in the Preferred Portfolio should be viewed as planning assumptions rather than procurement commitments.

Actual customer rate impacts will depend on future market prices, resource adequacy requirements, load growth, regulatory changes, and procurement outcomes. DCE will continue to refine its cost and rate projections as needed.

f. System Reliability Analysis

DCE is committed to procuring resource adequacy (RA) to meet all CPUC requirements and contribute its fair share to grid reliability. DCE has performed a reliability analysis using marginal effective load carrying capabilities (ELCCs) for the Preferred Portfolio per the CPUC's instructions. The reliability portfolios include the following:

- DCE's executed RA contracts for compliance year 2026.

- DCE's allocated share of resources subject to the cost allocation mechanism (CAM). Per the CPUC's IRP filing requirements instructions, DCE included a share of all SCE CAM resources in the most recent year-ahead CAM list. DCE's allocated share is estimated based on the year-ahead share of the total coincident peak load for the SCE service territory, as assigned in the Commission's annual resource adequacy process.
- DCE's allocated share of SCE demand response resources. For modeling purposes, the 2026 initial allocation was held constant through 2045 and is reported with contract type online.
- DCE's allocated share of resource adequacy from ten battery storage facilities that SCE contracted with to meet D.19-11-016 requirements. DCE has executed a contract to purchase this resource adequacy pursuant to D.22-05-015. All resources are four-hour lithium-ion battery projects and modeled with contract type online.
- The reliability contribution from DCE's executed long-term contracts with wind, standalone storage, geothermal, and demand response resources, excluding resources procured through the VAMO process, which does not supply resource adequacy capacity.
- The reliability contribution from DCE's planned long-term contracts with new solar + storage resources, new out-of-state wind resources, and existing in-state wind resources.
- The reliability contribution from DCE's allocated share of the AB 1373 resources.
- To the extent there is still a gap in reliability procurement needs, DCE assumes it will procure System RA using short-term, RA-only contracts from existing gas resources. These are planned existing contracts for thermal resources. Though modeled as gas resources, DCE's actual RA portfolio may include other resource types, especially battery resources which made up a significant portion of DCE's 2026 RA portfolio.[10]

Table 13 and Figure 6 below summarize DCE's projected annual reliability needs and available effective capacity (ELCC-MW) by contract status for the Preferred Portfolio, based on the Resource Data Template (RDT). Table 13 provides the underlying numerical values, while Figure 6 illustrates how existing resources are progressively supplemented and replaced by resources under development and planned procurements over the planning period. Together, they demonstrate that DCE maintains sufficient effective capacity to satisfy its projected annual reliability requirements throughout the planning horizon.

[10] Note, that the year 2026 still required some natural gas additions even after accounting for RA purchases. This is due to differences in load forecast, lack of inclusion of Diablo Canyon credits, and differences in accounting between the monthly RA construct and the annual IRP construct. For instance, some short-term RA contracts did not count as annual capacity because they did not cover the entire summer of 2026.

Table 13 DCE load and resources by contract status from RDT

Load and Resource Table by Contract Status																				
	2026	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
LSE reliability need (MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
ELCC by contract status (effective MW)																				
Online	96	43	28	23	19	19	19	17	17	17	16	15	14	13	7	6	6	6	6	6
Development	-	36	32	34	18	20	19	18	16	15	16	16	16	17	17	17	17	17	17	17
Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Planned Existing	29	49	71	64	51	54	58	65	72	67	67	67	62	62	68	66	64	62	60	59
Planned New	-	-	-	-	24	23	22	21	20	29	30	31	37	38	39	41	42	43	44	44
BTM PV	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5
LSE total supply (effective MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
Net capacity position	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

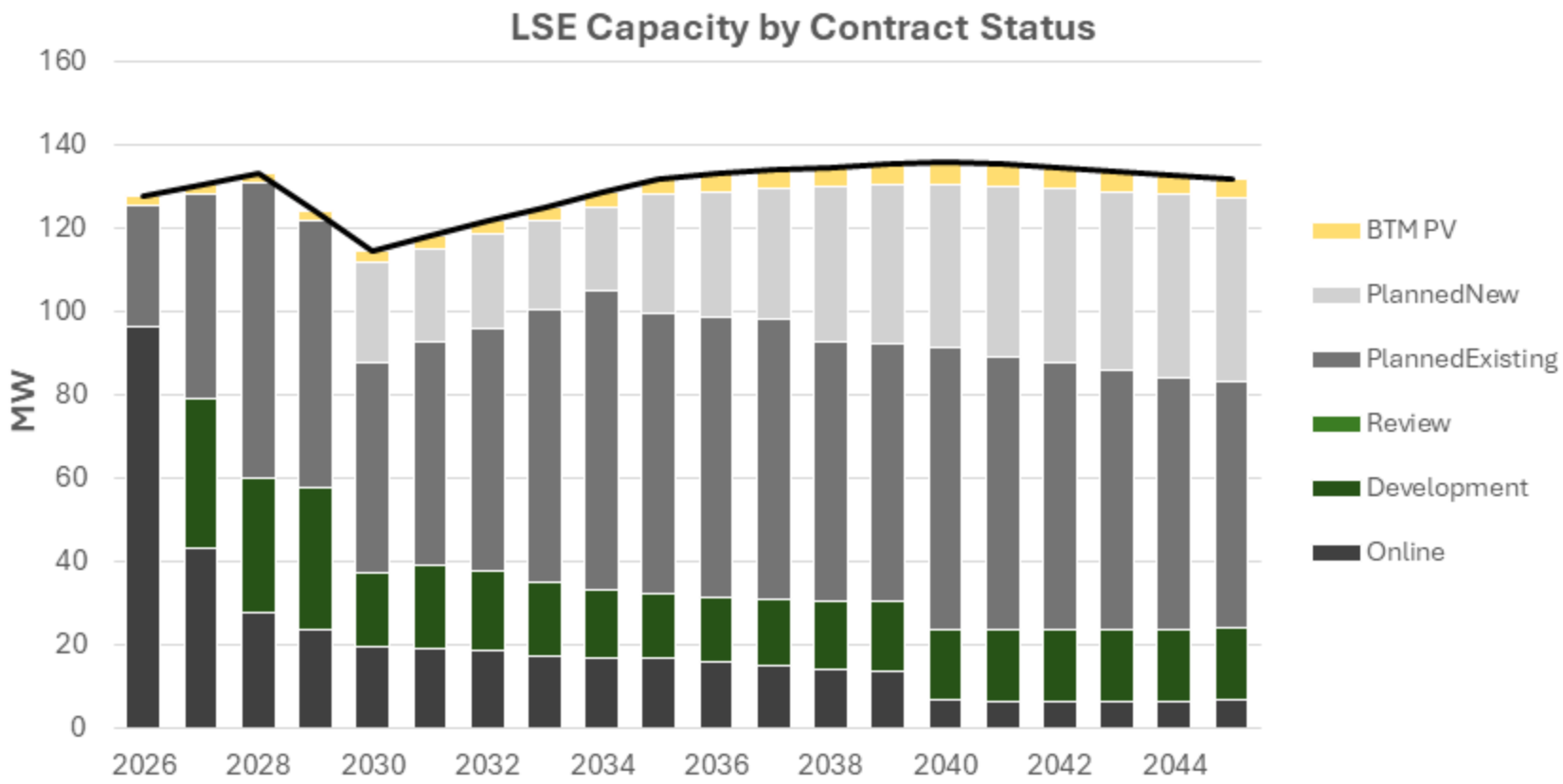


Figure 6 DCE annual Capacity Results by Contract Status. From RDT

g. Existing Resource Planning

DCE's Preferred Portfolio includes existing resources, many of which are already under contract. Only one new long-term contract with an existing wind resource is included in part due to DCE's preference for local resources. DCE has a successful track record of procuring existing wind resources within the Coachella Valley area and hopes to continue this success (potentially by repowering of existing wind sites).

Although DCE includes large amounts of long-term contracts with new resources to meet its RPS requirements beginning in 2030, it also includes short-term purchases from existing resources for about 15% of its RPS energy needs. It now also relies on allocations of large hydro and nuclear from SCE's PCIA portfolio to meet its GHG-free procurement target for the Carbon Free rate product.

If short-term RPS purchases, existing wind, nuclear, or hydro is ultimately unavailable, DCE will consider additional resource types for procurement, including new solar or wind resources and out-of-state wind.

Compared to the 2022 IRP, DCE has reduced reliance on existing resources in some respects but increased in others. In total, the reliance on existing wind is reduced compared to the 2022 IRP. The 2022 IRP relied on an existing wind contract in 2035 to meet GHG reduction needs, resulting in over 200 GWh of existing wind in DCE's 2035 portfolio. The new IRP portfolio only includes 177 MWh of existing wind in 2035. Other changes include the following:

- Because this IRP relies on long-term RPS contracting for 80-90% of RPS requirements, some short-term purchases from existing renewable resources are included for the remaining 10-20%. The 2022 IRP relied entirely on long-term contracts to meet RPS needs.
- In the 2022 IRP, DCE did not include allocations from GHG-free PCIA resources. Since then, DCE has begun receiving such allocations and includes them in its planning except for its Diablo Canyon allocations.
- DCE relies on existing gas resources to meet projected reliability needs. This is consistent with the 2022 IRP.

h. Hydro Generation Risk Management

Hydro Generation Risk Background

There are two fundamental issues regarding hydro risk management. The first relates to the limited availability of new hydro development and the second to the annual variability in hydro generation. Both will be discussed in turn below. There is little to no development of new hydro resources in North America, other than some ongoing development of new large hydro resources in Canada. This is largely due to a lack of available sites to build new facilities and concerns over the environmental impacts of creating new impoundments.

However, the existing hydro fleet is expected to continue to provide significant benefits in terms of low-cost, flexible, carbon-free generation. As decarbonization mandates intensify over the coming years, resource planners anticipate hydro generation resources will be in high demand. The problem is that if enough LSEs plan to rely on hydro to meet green power goals, there may be inadequate hydro available

to supply this demand, which would ultimately lead to inadequate development of new, non-hydro, carbon-free resources. Thus, for IRP purposes, LSEs are required to assess their reliance on hydro generation.

The amount of generation supplied by a hydro facility may vary year-to-year because of variation in water supply. The volume of water available to flow through a hydro turbine determines how much electric generation a hydro facility will produce. In a drought, there will be reduced water supply available for generation. In some hydro systems, large reservoirs can hold water multiple years, including from wet years into dry years, to average out the impact of drought through time. California's hydro system does not have such water storage capacity, so the hydro generation varies year-to-year based on hydrological conditions. The chart below shows how during recent droughts, California's hydro generation has decreased.

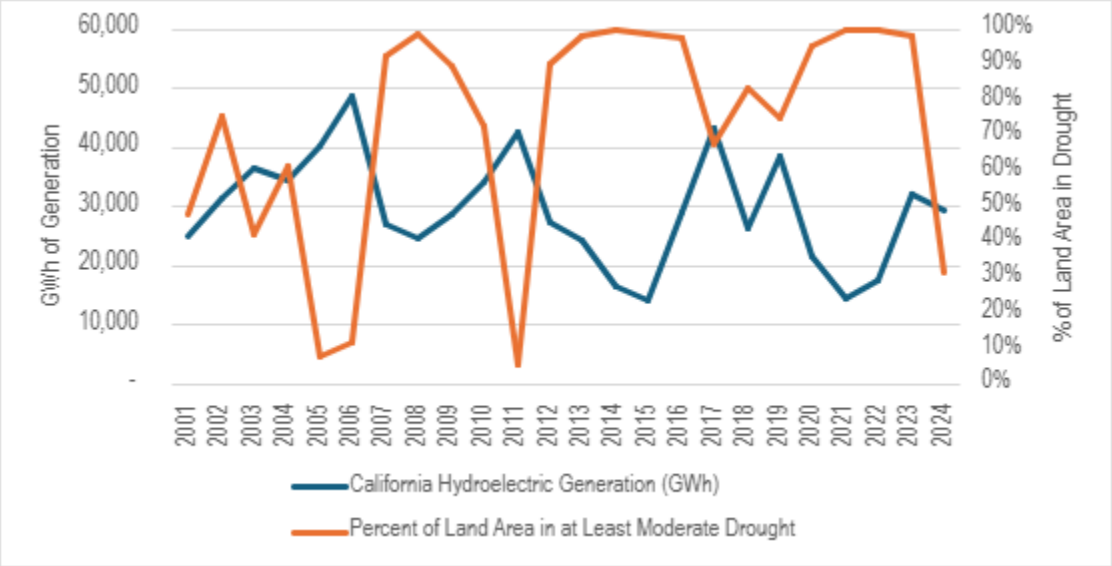


Figure 7 California In-State Hydro Generation Compared to Percent of California Land Area in at Least Moderate Drought[11]

While drought also impacts generation from hydro facilities in the Pacific Northwest region, for purposes of IRP, LSEs are only required to discuss strategies to mitigate the risk from in-state drought.

DCE Hydro Generation Risk

DCE currently relies on allocations from SCE's PCIA hydro resources within its Carbon Free product portfolio. It also relies on some in-state small hydro resources procured through the VAMO process. For the Preferred Portfolio modeling, DCE ceases to rely on large hydro purchases for its Carbon Free product in 2030, opting for a 100% renewable portfolio instead. This is consistent with the 2022 IRP. For

[11] *Generation data from CEC at: https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html; Drought index data from: https://www.drought.gov/drought/states/california*

the Desert Saver product, DCE assumes that allocations of GHG-free PCIA resources will contribute toward a 100% carbon free target for all of DCE's load starting in 2030. This is different from the 2022 IRP portfolio, which did not include the carbon free target for the Desert Saver product. The Preferred Portfolio also includes out-of-state large hydro purchases to meet DCE's carbon-free target for Desert Saver. Hydro imports make up 3%-5% of DCE's portfolio on an energy basis starting in 2030. The need for such purchases will depend in part on whether Diablo Canyon's service life will be extended, and whether DCE can begin counting GHG-free energy from this facility as it does today. The chart below compares the amount of in-state hydro energy in its Preferred Portfolio to its load ratio share of in-state hydro from the TPP Portfolio with Updates. The amount is much lower than the load ratio share because DCE only receives allocations from SCE, not the entire state. Therefore, DCE is less reliant on hydro than the state as a whole.

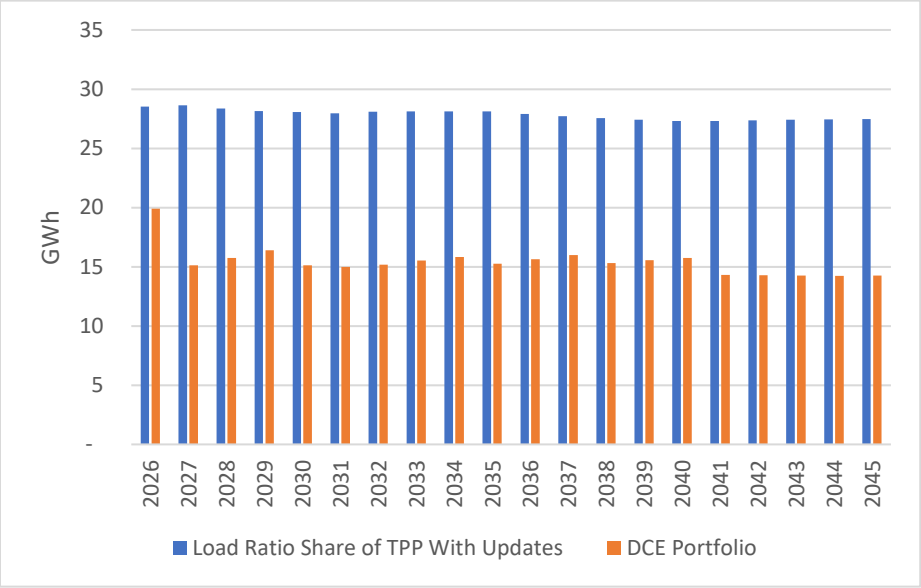


Figure 8 Comparison of hydro reliance in TPP Portfolio with Updates (CAISO system) and DCE's Preferred Portfolio. Hydro purchases include all small hydro and in-state large hydro. Note: 2026 reflects actual 2026 hydro conditions

DCE models an average level of hydroelectric supply for long-term planning purposes because the IRP represents an expected planning case rather than annual hydrologic conditions. DCE recognizes that actual hydroelectric generation allocated through Southern California Edison may vary from year to year due to changing water conditions. This risk is mitigated through DCE's diversified procurement strategy, which combines SCE GHG-free allocations with contracted renewable resources and supplemental market purchases of carbon-free energy when appropriate. Accordingly, DCE does not rely on a fixed quantity of hydroelectric generation to achieve its Board-directed Carbon Free objectives.

i. Long-Duration Storage Planning

The CPUC defines long-duration storage as a minimum of 8-hour duration. DCE currently has a contract for a new 8-hour standalone storage resource, the Balsam/Dirac Project, targeted for COD in 2028 (new

since the 2022 IRP). The amount procured exceeds the 2028 MTR LDES requirement, and the excess will be applied toward the new long lead time (LLT) requirement in D.26-02-057. The Preferred Portfolio also includes planned new 8-hour storage pairing with new solar resources. This is due to the expected decline in four-hour battery ELCCs and the reliance on 8-hour storage in the most recent TPP portfolio.

For this IRP cycle, DCE also includes 4 MW of new storage resources with durations of 24 and 100 hours procured by DWR pursuant to AB 1373. This was allocated by Energy Division Staff, but ultimately may vary depending on what DWR actually procures. One key benefit of longer duration storage is a greater reliability contribution per MW of installed capacity, reflected in higher ELCCs for IRP compliance and lower battery charging requirements in the RA SOD model (per new guidance in D.26-07-008). Longer durations also allow the resources to store more energy and increase dispatch flexibility compared to short-duration storage. This increases their potential to reduce emissions. The main drawback is higher cost compared to short-duration resources. Thus, DCE will have to consider the added benefits compared to costs when it makes its final procurement determinations. The final ELCCs for the most recent IRP procurement order will determine if DCE needs to procure more than provided by the Balsam/Dirac Project to meet LLT resource requirements.

j. Clean Firm Power Planning

For its MTR compliance procurement efforts, DCE staff worked with other CCAs on a joint procurement, rather than conducting a stand-alone solicitation. As part of this effort, DCE executed a contract with Cape Generating Station 1 LLC, a subsidiary of Fervo Energy (Fervo), for a geothermal project located in Beaver County, Utah. DCE's share of the project is 4 megawatts (MW) over a 15-year period, with an expected COD in 2031. The amount procured has increased from 3 to 4 MW in the 2026 IRP compared to the 2022 IRP due to a contract amendment.

Fervo's geothermal systems make use of horizontal drilling techniques coupled with Organic Rankine Cycle (ORC) generator systems to deliver zero-carbon, zero-emission electricity. ORC power plants are zero-carbon, zero-emission generators. Thermal energy is supplied at high temperature to the ORC by a heat transfer fluid consisting of geothermal brine. The ORC turbogenerator then converts thermal energy from geothermal fluid into electric energy using a turbine coupled with an electric generator. ORC plants are fully dispatchable and flexible, with extremely fast ramping rates of up to 30 percent of nominal capacity per minute. The project will be eligible for RPS certification and inclusion in DCE's Carbon Free product generation portfolio.

The Cape Generating Station project will be located outside of Milford in Beaver County, Utah, approximately 10-to-15 miles from the Milford Wind Corridor project. That project is connected directly to the Los Angeles Department of Water and Power's (LADWP) Intermountain Power Project (IPP) Station Switchyard via the Milford Wind Line, which is a dedicated transmission line.

For this IRP cycle, DCE also includes 2 MW of new geothermal resources procured by DWR pursuant to AB 1373. This was allocated by Energy Division Staff. Ultimately, this may vary depending on what DWR actually procures.

Though DCE did not include additional geothermal resources in its IRP portfolios for this planning cycle, DCE remains open to supporting further geothermal development to capture its emissions reduction and economic development benefits, especially local development in the Imperial Valley and projects with carbon-free technology. Key to further procurement will be the cost of such resources compared to alternatives, such as solar paired with multi-day storage, as well as how much is ultimately procured by DWR compared to what is available on the market. DCE will consider offers from geothermal energy in response to future RFOs, and will report back on this topic in future IRPs.

k. Non-CAISO, including Out-of-State, Wind Planning

To date, DCE has not procured any out-of-state wind resources due to the availability of wind located directly in Palm Springs. DCE anticipates it will continue to be open to offers for out-of-state wind, but will continue to prefer local resources. For purposes of this IRP, the Preferred Portfolio includes procurement of local wind resources and out-of-state resources to meet emissions requirements. The out-of-state wind is new for this IRP and reflects progress in out-of-state wind and transmission development and lack of in-state wind development.

For modeling purposes, DCE assumed the out-of-state wind in its Preferred Portfolio is located in New Mexico. The TPP with Updates was modeled as having new wind in this location as well as Wyoming. DCE is open to either location, and the ultimate procurement decision will depend on the construction cost, capacity factor, and transmission availability from these regions compared to what is available to DCE locally.

l. Offshore Wind Planning

As indicated above in its discussion of out-of-state wind, DCE prefers to procure resources local to its service territory. However, new for this IRP cycle, DWR is expected to begin procuring offshore wind. Thus, for purposes of this IRP, the Preferred Portfolio includes DCE's allocated share of this procurement. This is expected to provide resource and geographical diversity to DCE's portfolio. The amount of offshore wind procured will depend on supportive policy decisions, technological development benefits, costs, and resolution of all permitting-related issues.

m. Transmission Planning

For resources contracted and in development, DCE provides the following information on transmission upgrades, as also reported in the RDT:

Fervo Geothermal

A System Impact Study ("SIS") for the project's intended Point of Interconnection ("POI"), the Milford 345 kV substation, and corresponding transmission line, was finalized in December 2022. The SIS examined the impacts of planned capacity additions and involved coordination between the private transmission owner, as well as affected systems and stakeholders including the Los Angeles Department of Water and Power ("LADWP") and PacifiCorp. No issues were identified on potentially affected neighboring systems.

Fervo executed a Facility Study agreement with the private transmission owner in May 2023. This agreement provides the foundation for a detailed Facility Study to understand the network upgrades and additional infrastructure needed to transport electricity from the Cape Station to the Delivery Point, LADWP's Intermountain Power Project. The Facility Study was completed in Q4 2023. In Q2 2024, Fervo executed a Large Generator Interconnection Agreement and Transmission Service Agreement with the private transmission owner. In Q4 2024, Fervo collaborated with Intermountain Power Agency (IPA) to define timelines and schedules for studies aimed to facilitate integration of the project into the IPA switchyard. Engineering design work on the switchyard is ongoing. As of Q1 2026, no issues have been identified that could affect upcoming timeline milestones.

Balsam 8-Hour Storage

The Large Generator Interconnection Agreement (LGIA) for the project has been executed. No significant issues with permitting have been identified, and the project has received Full Capacity Deliverability Status. The project site is adjacent to the point of interconnection (POI), and the substation has sufficient capacity to accommodate the proposed project.

Athos Storage

The LGIA for the project was executed as of October 27, 2025. To count towards MTR compliance, the project needs to apply annually for Interim Deliverability Status (IDS). The project will not receive Full Capacity Deliverability Status (FCDS) from CAISO until required transmission upgrades are installed. No upgrades are needed for interim deliverability status.

For its planned resources, DCE can provide the following information regarding resource location and transmission upgrades:

GHG-free Purchases and Allocations: In the past, DCE used contracts for energy from large hydro resources located outside California to supply carbon free energy for its Carbon Free rate product. More recently, DCE has relied on allocations from Diablo Canyon and SCE's PCIA portfolio. The PCIA portfolio allocations as well as planned hydro imports are included in the Preferred Portfolio. The amount of hydro imports needed will vary depending on availability of hydro allocation from SCE's GHG-free PCIA portfolio and Diablo Canyon. Since these are existing resources, they are not expected to require transmission upgrades to be deliverable to CAISO.

- Planned solar + storage: DCE includes three generic planned solar + storage resources in its Preferred Portfolio, modeled as resources within SCE's territory. This is roughly consistent with the TPP with Updates portfolio, which includes a large amount of such resources and DCE's preference for local procurement. However, DCE does not object to the CPUC modeling these resources in other locations for transmission planning purposes. Although these resources were not included in DCE's 2022 IRP, the prior IRP portfolio also similarly included solar + storage resources in southern California.
- Existing local wind: DCE has modeled a new contract with an existing local wind resource. As an existing resource, DCE does not anticipate the resource would require transmission upgrades. A PPA with an existing local wind facility was also included in the 2022 IRP.
- Existing natural gas generation: DCE does not have a location preference for existing resources that are used to meet short-term RA needs. DCE models short-term contracts with existing natural gas generation consistent with the 2022 IRP, but ultimately the portfolio may include other resource types in various locations.
- Out-of-state Wind: New transmission is expected to be required to support out-of-state wind, which DCE chooses to model in New Mexico. DCE does not state a location preference for these resources and does not object to the CPUC and CAISO modeling this resource in any other location.
- Short-term contracts with existing RPS resources: As these are existing resources, no new transmission is needed to support them. DCE does not state a location preference for these resources and does not object to the CPUC and CAISO modeling this resource in any other location.
- AB 1373 Resources: DCE has no objection to the CPUC and CAISO modeling these resources in other locations.

DCE's preference for local generation resources is consistent with its past IRPs and one of the reasons its planned resource locations do not align one-to-one with the PSP or TPP portfolios. However, DCE's preference is only a preference. DCE is willing to execute contracts for resources outside of its local area if the resource meets its least-cost best-fit criteria, as demonstrated by its recent contract with a geothermal resource in Utah. Transmission availability will be one of the factors considered for all future contracts DCE executes.

IV. Action Plan

This section describes DCE's planned procurement activities to implement its Preferred Portfolio, the key risks and barriers that could affect implementation, and actions that may support successful execution of the portfolio over the planning horizon.

Potential barriers to resource procurement include weather conditions, regulatory uncertainty, market risks, load forecast changes, and resource development risks. Development risk refers to the possibility that a project may fail to achieve commercial operation due to challenges related to site control, permitting, financing, construction, interconnection, or other factors that may arise during project development. To mitigate these risks, DCE seeks to contract with projects that demonstrate a clear path

to commercial operation, including evidence of development progress such as secured site control, and that are sponsored by experienced development teams with a demonstrated track record of successfully bringing renewable energy projects online in California.

A narrative discussion of the risks and potential barriers associated with each resource type included in DCE's Preferred Portfolio is provided in the sections below.

a. Proposed Procurement Activities and Potential Barriers

A detailed action plan for each resource type in DCE's conforming portfolios is described in the sections below.

i. Resources to meet IRP mandated procurement requirements, including D.21-06-035 and D.23-02-040:

DCE has executed contracts sufficient to satisfy its procurement obligations under Decisions 21-06-035 and 23-02-040. These procurements include 4 MW of geothermal generation from the Cape Station project, 43 MW of four-hour battery energy storage from the Athos Storage project, 21 MW of eight-hour battery energy storage from the Balsam/Dirac Project, and other reliability resources necessary to satisfy applicable Mid-Term Reliability (MTR) procurement requirements. DCE also utilized other short term CPUC-approved compliance mechanisms to maintain compliance while replacement resources were being procured and developed.

With the required procurement substantially complete, DCE's primary focus is supporting the successful development and commercial operation of these contracted resources while maintaining compliance with applicable CPUC procurement requirements. DCE actively monitors project development milestones, including permitting, financing, interconnection, construction progress, and commercial operation schedules. If project delays, cancellations, or other development risks could affect compliance, DCE will evaluate replacement procurement options and other compliance mechanisms as appropriate.

D.26-02-057 established an additional procurement requirement for the 2030–2032 period. DCE was assigned to procure 12 MW total of additional MTR-eligible resources. DCE expects that excess qualifying capacity from existing contracted resources may contribute toward these obligations, subject to applicable eligibility requirements and final resource accreditation. DCE will continue to monitor changes to CPUC procurement decisions, Resource Adequacy requirements, and other regulatory obligations, and will adjust its procurement activities as necessary to maintain compliance while supporting a reliable, cost-effective, and increasingly carbon-free portfolio.

ii. Plans for resources that are currently non-candidate in CPUC's IRPs not described above

DCE does not include any non-candidate resources.

iii. Other renewable and/or zero carbon resources not described above

As part of its forecasting and procurement processes, DCE considers the overall diversity, reliability, and affordability of its renewable and carbon-free portfolio, including resource dispatchability, accredited capacity value, operational flexibility, and expected generation profiles. DCE also evaluates development risk, market risk, transmission constraints, interconnection timelines, and long-term portfolio fit. These efforts support a diverse resource mix capable of meeting reliability, greenhouse gas reduction, and Renewable Portfolio Standard (RPS) objectives.

Presently, DCE is focused on managing its existing portfolio of renewable, hydroelectric, wind, geothermal, and energy storage resources while implementing the resource additions reflected in its Preferred Portfolio.

DCE expects to meet its RPS compliance obligations over the planning horizon through a combination of existing long-term renewable contracts, voluntary allocations, future renewable procurements, hydroelectric resources, and limited short-term renewable purchases. The exact resource mix may evolve in response to legislative and regulatory changes, technological developments, resource availability, market conditions, and future Board policy direction. The preferences of the DCE Board and the community it represents will also be met, as well as other key local developments, such as the potential launch of service to the City of Palm Desert.

DCE remains committed to California's greenhouse gas reduction and renewable procurement goals while maintaining a reliable and cost-effective portfolio. In addition to meeting state RPS requirements, DCE's Board has established ambitious clean energy goals, including providing a default Carbon Free product for Palm Springs customers. Procurement decisions continue to follow DCE's least-cost best-fit framework, balancing affordability, reliability, portfolio diversity, and environmental performance while evaluating emerging renewable and zero-carbon technologies that support DCE's long-term objectives.

Short-Term Contract Resources

DCE entered into a voluntary allocation agreement with SCE for purchase of energy and RECs through the VAMO process. This represents a cost-effective way for DCE to secure access to resources to meet RPS requirements at low risk, since these resources are already online.

As VAMO contracts expire and DCE's RPS target expands to 100% renewable for the Carbon Free product, DCE also relies on short-term RPS contracts for existing resources. However, reliance is modest, as it targets long-term contracts for 80-90% of the RPS target. DCE will monitor the availability of existing resources and adjust the long-term contracting target as necessary. DCE currently relies on

allocations of carbon-free resources from Diablo Canyon and SCE's PCIA portfolio of nuclear and large hydro resources. Per the Preferred Portfolio, DCE will need to supplement these allocations with imported large hydro to meet its carbon-free procurement goals starting in 2030. These contracts would be purchased on a short-term basis. However, the amount of hydro needed may vary from the Preferred Portfolio if Diablo Canyon's operation is extended and LSEs are allowed to count Diablo Canyon's output as carbon-free energy. If the market for carbon-free energy is ultimately limited, DCE will look at alternative options, including expanded RPS procurement. DCE is committed to meeting all GHG reduction and RPS requirements.

Other Existing Local Wind

DCE includes extensions of local wind resources in its portfolio to meet RPS requirements through 2045. There has already been significant development of wind resources in Riverside County, especially near North Palm Springs and in the San Gorgonio Pass. Furthermore, many of the turbines in the San Gorgonio Pass are older and in need of repowering, which could increase the total wind produced from the region. Potential barriers include transmission availability, interconnection delays, permitting requirements, equipment supply constraints, and competition for high-quality renewable resources. If local wind is not available, DCE will consider purchasing wind in other locations, including out-of-state wind or additional solar and storage, carbon-free geothermal, or small hydro.

Other New Long-term Purchases

The Preferred Portfolio includes three new solar + storage contracts and one new out-of-state wind contract. DCE expects to issue a new RFO in the fall of 2026 to begin the process of procuring these new resources. Depending on offers received in this new RFO, the resources procured may differ from what is modeled in the portfolio.

iv. Other energy storage not described above

Not applicable. DCE has no additional energy storage resources to report beyond the contracted and planned storage resources described above.

v. Other demand response not described above

Not applicable. DCE has no additional demand response programs beyond the contracted demand response resource described above.

vi. Other energy efficiency not described above

DCE continues to evaluate customer programs that complement its resource procurement strategy by reducing electricity demand and supporting local greenhouse gas reductions. The FY 2026/27 budget includes $500,000 in matching funds for customer programs offered by the City of Palm Springs and/or developed by DCE. Potential uses include incentives supporting the City's energy efficiency home upgrades for low-income residents or other qualifying energy efficiency improvements. Program design is currently under development and will be presented to the DCE Board for consideration. If approved,

these programs are expected to improve customer participation in energy efficiency measures and contribute to long-term load reduction objectives.

In addition to its current customer programs and outreach efforts, DCE is pursuing new initiatives intended to expand access to clean energy, energy efficiency, sustainability, and community benefits throughout its service area, including low-income and hard-to-reach communities. In 2025, DCE submitted a Tier 3 Advice Letter application to the California Public Utilities Commission (CPUC) under the Energy Efficiency Elect-to-Administer (ETA) Program seeking approval to implement the Community Energy Savings (CES) Program, a small business direct install energy efficiency pilot. As of the date of this filing, DCE's application remains under CPUC review. If approved, the CES Program would provide no-cost energy efficiency improvements to eligible small businesses, including independently owned businesses, community-serving organizations, and hard-to-reach customers that may face barriers to participation in traditional energy efficiency programs. The program is intended to reduce energy consumption, lower customer energy costs, and support reductions in greenhouse gas emissions associated with electricity consumption.

In 2026, DCE also launched a Community Benefits Grant Program in partnership with Calpine Community Energy to support local nonprofit organizations advancing clean energy, sustainability, resiliency, workforce development, education, and environmental and social justice initiatives within the City of Palm Springs. The program provides grant funding to eligible 501(c)(3) organizations for projects and programs that deliver measurable local benefits and support community engagement around clean energy and sustainability issues. The inaugural grant solicitation was released in May 2026, with applications accepted through June 2026 and award selections anticipated later in 2026. Through these efforts, DCE is expanding opportunities for community-based organizations and local stakeholders to participate in and help inform future clean energy initiatives and community benefit programs.

vii. Other distributed generation not described above

DCE does not currently include additional distributed generation resources in its Preferred Portfolio beyond those reflected in applicable load forecasts and statewide planning assumptions. DCE will continue to evaluate opportunities associated with distributed energy resources, including rooftop solar, behind-the-meter storage, and community-scale renewable generation.

viii. Transportation electrification, including any investments that correspond to different levels than what is included in Integrated Energy Policy Report (IEPR)

DCE incorporates the expected transportation electrification adoption into its load forecasting process from the IEPR. As transportation electrification increases, DCE will continue to evaluate the resulting impacts on future resource procurement needs.

ix. Building electrification, including any investments that correspond to different levels than what is included in Integrated Energy Policy Report (IEPR)

DCE incorporates expected building electrification impacts into its load forecasting process and resource planning activities. Future resource procurement needs may be influenced by increased electric load associated with building electrification and related state and local policies.

x. Potential Centralized Procurement, pursuant to AB-1373

DCE has incorporated its expected allocation of resources procured pursuant to AB 1373 and related CPUC decisions into its Preferred Portfolio. DCE will continue to monitor implementation of DWR's centralized procurement efforts and may adjust future procurement activities to avoid duplicative procurement while maintaining compliance with applicable reliability and clean energy requirements.

xi. Other

Short-Term Resource Adequacy Contracts

DCE will continue to procure Resource Adequacy to meet its requirements, including RA-only contracts with thermal resources. Such procurement may need to change in the future should the CPUC implement the Reliable and Clean Power Procurement Program (RCPPP) in coordination with RA. As 2045 approaches, DCE will also monitor available resources and technology developments that can reduce reliance on thermal generation.

Other Efforts

DCE's communities have been and will continue to be active participants in local environmental planning, including electric service improvements. The City of Palm Springs has been a regional leader in sustainability efforts. Energy Action Plans and Climate Action Plans adopted in 2013, and its 2016 Sustainability Plan confirm Palm Springs's commitment to using renewable energy to reduce greenhouse gas emissions and addressing climate change at the local level. Establishment of a Community Choice Aggregation program was identified in Palm Springs 2016 Sustainability Plan. Encouraging renewable energy is an essential component of the City's path towards sustainable development, carbon neutrality, and a resilient community. In February 2022, the Palm Springs City Council adopted its FY 2021/22 Strategic Plan, which includes achieving reductions in greenhouse gas (GHG) emissions and maintaining and expanding outreach of DCE's 100% carbon-free model. The Coachella Valley Association of Governments (CVAG) is currently working with its partner agencies, Western Riverside Council of Governments and San Bernardino Associated Governments, in the implementation of the Inland Regional Energy Network (I-REN), whose business plan the CPUC approved in November 2021. I-REN will provide opportunities for energy efficiency and energy-related workforce development in our region, as well as opportunities for collaborative efforts with DCE, which shares staff with I-REN through CVAG. Most recently, Palm Springs participated in the development of the 2025 Riverside-San Bernardino-Ontario Metropolitan Statistical Area Comprehensive Climate Action Plan, which identifies renewable

electricity, energy efficiency, and building electrification as key strategies for advancing regional 2030 and 2045 GHG reduction targets.

The DCE Board will continue to evaluate customer programs and initiatives that support the agency's clean energy, affordability, and reliability objectives. Potential future programs may include transportation electrification, building electrification, distributed energy resources, grid resiliency, and energy efficiency initiatives, subject to Board direction, regulatory requirements, and available funding.

DCE offers Net Energy Metering (NEM) service with exported generation compensated consistent with applicable Southern California Edison tariffs. This program allows customers to pair renewable energy generated on-site with DCE's clean electricity products and supports continued deployment of distributed energy resources within DCE's service area. DCE will continue to evaluate opportunities to support rooftop solar, energy storage, community solar, and other distributed energy resources as part of its broader clean energy strategy.

Customers will continue to have access to important electric rate assistance programs, including CARE, FERA, and Medical Baseline. DCE will also continue to evaluate opportunities for future customer programs that support affordability, resiliency, and greenhouse gas reduction goals.

b. Disadvantaged Communities (DACs)

DCE remains committed to ensuring that all customers, including residents of disadvantaged and low-income communities within its service area, have access to reliable, affordable, and increasingly clean electricity service. While DCE's service territory does not contain any census tracts currently designated by CalEPA as disadvantaged communities pursuant to SB 535, portions of the service area overlap with communities identified as low-income under AB 1550. DCE recognizes the importance of engaging these communities and considering affordability, environmental benefits, and customer impacts in its planning and procurement activities.

A core component of DCE's efforts to support disadvantaged and low-income customers is maintaining competitive electricity rates while increasing access to carbon-free energy options. DCE continues to offer its Desert Saver product at rates designed to remain competitive with Southern California Edison bundled service and maintains participation in the California Alternate Rates for Energy (CARE), Family Electric Rate Assistance (FERA), and Medical Baseline programs. Eligible customers continue to receive the same discounts and benefits available through Southern California Edison while receiving DCE generation service.

DCE conducts outreach and customer engagement through public Board meetings, Community Advisory Committee meetings, community events, social media platforms, digital communications, and its website. Outreach materials are made available in both English and Spanish, reflecting the demographics of the Coachella Valley and supporting broader community participation. DCE regularly participates in community events throughout its service area to increase awareness of customer

programs, renewable energy procurement activities, and opportunities for public input regarding DCE's policies and operations.

DCE's Community Advisory Committee provides an additional avenue for community engagement and feedback. The Committee includes members representing diverse interests and communities within DCE's service area and serves as a forum for discussing procurement activities, program development, rate impacts, and broader clean energy initiatives. Input received through public meetings and advisory committee discussions is considered by the DCE Board of Directors in its decision-making process.

DCE's procurement activities are primarily focused on renewable, energy storage, hydroelectric, and other carbon-free resources. As a result, DCE does not anticipate significant localized air quality impacts within disadvantaged or low-income communities resulting from implementation of its Preferred Portfolio. Furthermore, DCE expects the portfolio's contribution to statewide greenhouse gas reductions and displacement of fossil-fueled generation to provide broader environmental and public health benefits throughout California.

DCE will continue to evaluate opportunities to expand outreach and engagement with disadvantaged and low-income communities throughout the planning period. Future efforts may include participation in additional community events, targeted customer education initiatives, and collaboration with local organizations to ensure that historically underrepresented communities are informed of and able to participate in DCE programs and planning activities.

c. LSEs' Tribal Customers

A portion of the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribe is located within DCE's service area. Due to the checkerboard pattern of Tribal Lands, many parcels are occupied by non-tribal residents and businesses pursuant to long-term land leases. Tribal facilities, including government offices and the casino, are enrolled in DCE.

DCE engages with the Tribe through the Coachella Valley Association of Governments (CVAG), which provides administrative and staffing services to DCE pursuant to an Implementation and Management Services Agreement. In June 2026, members of the ACBCI Tribal Council received an update on DCE during CVAG's annual General Assembly. The presentation included information relevant to DCE's programs and activities, including resource planning. Tribal Council members did not provide feedback related to the IRP or other DCE planning activities following the presentation.

d. Procurement Products

The Preferred Portfolio contains a mix of new short-term and long-term contracts for RPS-eligible resources, with 80-90% of RPS resources coming from long-term contracts. Long-term contracts are expected to include all RPS, RA, and other attributes. Additional carbon-free energy is supplied by contracts for large hydro imports, modeled as short-term contracts. The portfolio also includes short-

term RA only contracts, with terms of one-year or less to meet reliability requirements. Various resource allocations are also included. The table below documents each type of transaction reported in the RDT.

Table 13 Physical Products

Product	Description of Product	List of Transactions as Reported in RDT
Active Long-Term PPA	Multi-year PPA for a specified resource; DCE purchases all resource attributes; Resources online and delivering	Coachella Hills Wind, Leap Energy DR, East Wind, Altwind, Phoenix Wind
Executed Long-Term PPA	Multi-year PPA for a specified resource; DCE purchases all resource attributes; Resources in development	Fervo Geothermal, Balsam/Dirac 8-hour Storage, Athos 4-hour Storage
Planned Long-Term PPA	Multi-year PPA for a specified resource; DCE purchases all resource attributes; Will be purchased pursuant to a future competitive solicitation	Solar + Storage PPAs with 2030, 2035, and 2038 CODs; Out-of-state Wind with 2035 COD; Existing wind with 2038 delivery start
VAMO Allocations	Allocations of RPS energy and RECs from SCE's portfolio	Reported as aggregates by resource type; includes solar, wind, geothermal, and small hydro
GHG-Free Allocations	Allocations of Carbon Free energy from SCE's PCIA portfolio	Reported as aggregates by resource type; includes large hydro and nuclear
MCAM Allocations	Allocations of RA from SCE's portfolio of resources purchased to meet D.19-11-016 requirements; Voluntary allocation per D.22-05-015	Reported as aggregate by contract term; all resources are storage resources
CAM Allocations (Includes regular CAM, CPE CAM, and DR allocations)	Allocations of RA from resources purchased by SCE to meet system needs per Commission directive. When CAM resources are battery storage, DCE also receives the emissions reduction benefits of the storage.	Includes allocations from 21 different resources for regular CAM per the CAM list; A separate DR allocation; One allocation for CPE CAM for year 2026 only
AB 1373 Allocations	Allocations of all resource attributes from resources procured by DWR pursuant to AB 1373. Resources will be purchased under long-term contract.	Reported as aggregates by resource type per Staff instructions. Includes Long-duration storage (24-hour duration and 100-hour duration), geothermal, and offshore wind.
Executed Short-term RA Only Transactions	Purchases of RA from specified resources and/or imports pursuant to RA market rules. Shown monthly using SOD	RDT includes 23 RA transactions for year 2026 with specified resources.

Product	Description of Product	List of Transactions as Reported in RDT
	resource counting. Purchased year-ahead and monthly.	
Planned Short-term RPS	Planned short-term purchases of RPS energy and RECs from existing RPS resources. Variable term length.	Modeled as annual purchases and shown as aggregate by resource type in the RDT; Includes solar, wind, geothermal, and small hydro
Planned Short-term Carbon Free	Planned short-term purchases of carbon-free energy from imported large hydro resources. Variable term length.	Modeled as annual purchases and shown as a single line in the RDT
Planned Short-term RA Only Transactions	Planned purchases of RA from specified resources and/or imports pursuant to RA market rules. Purchased year-ahead and monthly,	Shown as annual transactions with gas resources for modeling simplicity
MTR Exchanges with other LSEs	Swaps of MTR obligations with other LSEs. Documented by Advice Letter.	DCE has executed swaps with University of California and Valley Clean Energy; reported on the mtr_nqc_summary tab of the RDT

DCE may engage in fixed price inter-scheduling coordinator transactions (ISTs) to hedge its cost to serve load in the CAISO energy market. The types of ISTs DCE may engage in from time to time are listed in the table below.

Table 14 ISTs not reported in RDT

Product	Description of Product
Fixed-price Block	Fixed-price forward purchase of electricity used to hedge commodity price risk and provide budget certainty.
Shaped Energy	Forward energy product tailored to match expected hourly or seasonal load profiles while managing electricity price risk.

e. Commission Direction of Actions

DCE is not requesting Commission action at this time.

V. Lessons Learned

Through these first four IRP cycles, DCE has seen how the role of regulatory uncertainty impacts DCE's planning. For instance, there were significant changes between the previous IRP plan and this IRP due to

the new MTR requirements for which ELCCs are unknown at the time of drafting the RFP. DCE urges the Commission to reduce this uncertainty to the maximum extent possible prior to setting IRP requirements to avoid a situation where IRPs become out-of-date as soon as they are printed. DCE hopes the creation of the RCPPP will be a significant improvement in this regard.

DCE has observed a growing disconnect between long-term IRP assumptions and the realities of resource procurement. Projects are often procured years before operation and face changing accreditation rules, transmission constraints, permitting challenges, and evolving requirements. As a result, actual procurement may differ from IRP portfolios even when reliability and clean energy goals remain the same. DCE encourages the Commission to maintain flexibility in the IRP process so LSEs can adapt to changing conditions while continuing to meet California's reliability, affordability, and emissions reduction goals.

Furthermore, greater advance notice and consistency in the IRP schedule would improve planning certainty, facilitate Board review, and provide additional time for stakeholder engagement and refinement of the Preferred Portfolio.

RDT Certification Form – Verification Declaration

Load Serving Entity Full Name:	Desert Community Energy
Load Serving Entity Abbreviation:	DCE
Submission Type:	IRP Biennial Planning
Date of Filing:	8/10/2026

Note: Consistent with Rules 1.1 & 1.11 of the CPUC's Rules of Practice and Procedure, this Procurement Showing has been verified by an officer of the corporation or organization, who expressly certifies, under penalty of perjury, the following:

1. I have responsibility for the activities reflected in this showing;
2. I have reviewed, or have caused to be reviewed, this showing;
3. Based on my knowledge, information, or belief, this filing does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made;
4. Based on my knowledge, information, or belief, this filing contains all of the information required to be provided by CPUC orders, rules, and regulations.

LSE Officer

Title:	Executive Director
Name:	Tom Kirk
Email:	tkirk@cvag.org
Phone:	760-346-1127
Signature:	

Backup Contact Information

Title:	Director of Energy and Sustainability
Name:	Lisa McNeilly
Email:	lmcneilly@cvag.org
Phone:	760-346-1127
Signature:	

Load Serving Entity Information

LSE Address Line 1:	74-199 El Paseo, Suite 100
LSE Address Line 2:	
LSE City:	Palm Desert
LSE State:	CA
LSE Zip:	92260

lse_sesiper_contract_id	resource	alternative_resource_name	contract_status	project_interconnection_position	interconnection_substation	marginal_addition	marginal_addition_to	total_nameplate_capacity	contracted_nameplate_capacity	sep_contracted_mw_sqc	contract_gwh_annual	is_hybrid_paired	can_charge_from_grid	total_generator_mw	contracted_generator_mw	total_storage_mw
DCE_PPA_Coachellamills	GARNET_2_COAWD2	COACHELLA 2	Online		NA	NA						NotHybrid				
DCE_RADNLY_OhmConnect_1	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE8_2_PDRP04	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_2	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE1_2_PDRP04	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_3	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE7_2_PDRP01	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_4	_NEW_GENERIC_DR	OhmConnect Demand Response, SCE7_1_PDRP99	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_5	_NEW_GENERIC_DR	OhmConnect Demand Response, SCE9_6_PDRP03	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_6	_NEW_GENERIC_DR	OhmConnect Demand Response, SCHD_1_PDRP04	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_7	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE6_1_PDRP10	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_8	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE9_2_PDRP06	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_9	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE8_2_PDRP03	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_10	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE9_2_PDRP07	Online		NA	NA		5				NotHybrid				
DCE_RADNLY_OhmConnect_11	_NEW_GENERIC_DR	OhmConnect Demand Response, PGE1_1_PDRP14	Online		NA	NA		5				NotHybrid				
DCE_PPA_FervoEnergy	_NEW_GENERIC_GEOTHERMAL	Cape Generating Station	Development	geothermal_import_planned	INTERMT_3_N106	NA		26				NotHybrid				
DCE_ESA_Balsam	_NEW_GENERIC_BATTERY_STORAGE	Balsam/Otrac Project	Development	2114	Otrao	NA		400				NotHybrid				
DCE_ESA_Athos	_NEW_GENERIC_BATTERY_STORAGE	Athos Storage, LLC	Development	1405	Red Bluff	NA		100				NotHybrid				
DCE_PPA_EastWind	GARNET_2_WIND3	SAN GORGONIO EAST	Online		NA	NA						NotHybrid				
DCE_PPA_Altwind	ALTWD_2_ATWD3	ALTECH_3	Online		NA	NA						NotHybrid				
DCE_PPA_Phoenix	GARNET_2_WIND1	PHOENIX	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_1	DSFLWR_2_WRCSB2	WILLY B CHAP 2	Online		NA	NA		72				ExistingSolarExistingStorage	NO	72	0	36
DCE_ST_RA_VCE_1	DSFLWR_2_WRCSB2	WILLY B CHAP 2	Online		NA	NA		72				ExistingSolarExistingStorage	NO	72	0	36
DCE_ST_RA_VCE_2	DSFLWR_2_WRCSB2	WILLY B CHAP 2	Online		NA	NA		72				ExistingSolarExistingStorage	NO	72	0	36
DCE_ST_RA_VCE_3	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_VCE_4	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_VCE_5	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_VCE_6	GARNET_2_COAWD2	COACHELLA 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_VCE_7	ALTWD_2_ATWD3	ALTECH 3	Online		NA	NA						NotHybrid				
DCE_ST_RA_VCE_8	GARNET_2_WIND3	SAN GORGONIO EAST	Online		NA	NA						NotHybrid				
DCE_ST_SA_COV_1	VERNON_6_MALBRG	MALBURG GENERATING STATION	Online		NA	NA						NotHybrid				
DCE_ST_SA_COV_2	VERNON_6_MALBRG	MALBURG GENERATING STATION	Online		NA	NA						NotHybrid				
DCE_ST_SA_SE_1	SENTNL_2_CTG4	SENTINEL UNIT 4	Online		NA	NA						NotHybrid				
DCE_ST_RA_NRG_1	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_1	SYCAMR_2_UNIT 1	SYCAMORE COGENERATION UNIT 1	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_2	SALINA_2_UNIT	SALINAS RIVER COGENERATION	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_3	SYCAMR_2_UNIT 1	SYCAMORE COGENERATION UNIT 1	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_4	SYCAMR_2_UNIT 1	SYCAMORE COGENERATION UNIT 1	Online		NA	NA						NotHybrid				
DCE_ST_RA_SENT_1	SENTNL_2_CTG7	SENTINEL UNIT 7	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_2	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_CES_1	HIDIRT_2_UNITS	HIGH DESERT POWER PROJECT AGGREGATE	Online		NA	NA						NotHybrid				
DCE_ST_RA_VC_1	EXCSLR_2_SOLAR	EXCELSIOR SOLAR	Online		NA	NA						NotHybrid				
DCE_ST_RA_NRG_2	SUNRIS_2_PLX43	SUNRISE POWER PROJECT AGGREGATE II	Online		NA	NA						NotHybrid				
DCE_ST_RA_SE_2	REDBLF_6_UNIT	RED BLUFF POWER PLANT	Online		NA	NA						NotHybrid				
DCE_MCAM_1	_EXISTING_GENERIC_BATTERY_STORAGE		Online		NA	NA						NotHybrid				
DCE_MCAM_2	_EXISTING_GENERIC_BATTERY_STORAGE		Online		NA	NA						NotHybrid				
DCE_MCAM_3	_EXISTING_GENERIC_BATTERY_STORAGE		Online		NA	NA						NotHybrid				
DCE_MCAM_4	_EXISTING_GENERIC_BATTERY_STORAGE		Online		NA	NA						NotHybrid				
DCE_MCAM_5	_EXISTING_GENERIC_BATTERY_STORAGE		Online		NA	NA						NotHybrid				
DWR_Geothermal 1	_NEW_GENERIC_GEOTHERMAL		PlannedNew		NA	NA		500				NotHybrid				
DWR_Geothermal 2	_NEW_GENERIC_GEOTHERMAL		PlannedNew		NA	NA		500				NotHybrid				
DWR_OSW Morro Bay 1	NEW_GENERIC_WIND_OFFSHORE_SOUTH		PlannedNew		NA	NA		1100				NotHybrid				
DWR_OSW Morro Bay 2	NEW_GENERIC_WIND_OFFSHORE_SOUTH		PlannedNew		NA	NA		1400				NotHybrid				
DWR_OSW Humbolt 1	NEW_GENERIC_WIND_OFFSHORE_NORTH		PlannedNew		NA	NA		1600				NotHybrid				
DWR_OSW Humbolt 2	NEW_GENERIC_WIND_OFFSHORE_NORTH		PlannedNew		NA	NA		1000				NotHybrid				
DWR_OSW Humbolt 3	NEW_GENERIC_WIND_OFFSHORE_NORTH		PlannedNew		NA	NA		1000				NotHybrid				
DWR_OSW Humbolt 4	NEW_GENERIC_WIND_OFFSHORE_NORTH		PlannedNew		NA	NA		1000				NotHybrid				
DWR_MDS 1	PGE_Generic_LDES_100hr		PlannedNew		NA	NA		500				NotHybrid				
DWR_MDS 2	PGE_Generic_LDES_100hr		PlannedNew		NA	NA		500				NotHybrid				
DWR_LDES 1	PGE_Generic_LDES_24hr		PlannedNew		NA	NA		500				NotHybrid				
DWR_LDES 2	PGE_Generic_LDES_24hr		PlannedNew		NA	NA		500				NotHybrid				
SCE_CAM_1	CHINO_2_APERT1	POMONA ENERGY STORAGE	Online		NA	N/A		20.00				NotHybrid				
SCE_CAM_2	BARRE_6_PEAK69	BARRE PEAKER	Online		NA	N/A		49.00				NotHybrid				
SCE_CAM_3	CENTER_6_PEAK69	CENTER PEAKER	Online		NA	N/A		47.30				NotHybrid				
SCE_CAM_4	ETIWND_6_GRYLND	GRAYLAND PEAKER	Online		NA	N/A		45.64				NotHybrid				
SCE_CAM_5	MNDALY_6_MCGRTH	MCGRATH BEACH PEAKER	Online		NA	N/A		48.56				NotHybrid				
SCE_CAM_6	MRLOM_6_PEAK69	MIRA LOMA PEAKER	Online		NA	N/A		47.18				NotHybrid				
SCE_CAM_7	MRLOM_2_MLBBTA	MIRA LOMA BESS A	Online		NA	N/A		10.00				NotHybrid				
SCE_CAM_8	MRLOM_2_MLBBTB	MIRA LOMA BESS B	Online		NA	N/A		10.00				NotHybrid				
SCE_CAM_9	CHEVMN_2_UNITS	CHEVRON U.S.A. UNITS 1 & 2 AGGREGATE	Online		NA	N/A		124.87				NotHybrid				
SCE_CAM_10	ALAMIT_7_PLX43	ALAMITOS_ENERGY_CENTER_UNIT_7	Online		NA	N/A		674.70				NotHybrid				
SCE_CAM_11	HNTGBH_2_PLX43	HUNTINGTON BEACH ENERGY	Online		NA	N/A		673.80				NotHybrid				
SCE_CAM_12	STANTN_2_STAGT1	STANTON 1	Online		NA	N/A		49.65				NotHybrid				
SCE_CAM_13	STANTN_2_STAGT2	STANTON 2	Online		NA	N/A		49.65				NotHybrid				
SCE_CAM_14	ALAMIT_7_ES1	ALAMITOS_ENERGY_STORAGE	Online		NA	N/A		100.45				NotHybrid				
SCE_CAM_15	SNCRA_2_VESBT1	VENTURA ENERGY STORAGE	Online		NA	N/A		100.00				NotHybrid				
SCE_CAM_16	GOLETA_2_GE1BT3	GOLETA ENERGY STORAGE	Online		NA	N/A		60.00				NotHybrid				
SCE_CAM_17	GOLETA_2_VALBT1	VALLECITO ENERGY STORAGE	Online		NA	N/A		10.00				NotHybrid				
SCE_CAM_18	SNCRA_2_SUBT1	SILVERSTRAND BESS	Online		NA	N/A		11.00				NotHybrid				
SCE_CAM_19	GOLETA_2_PAINT2	PAINTER BESS	Online		NA	N/A		10.00				NotHybrid				
SCE_CAM_20	SNCRA_6_PROCGN	PROCTER AND GAMBLE ONNARD 2	Online		NA	N/A		47.90				NotHybrid				
SCE_CAM_21	CHARMN_2_PGDNG1	PROCTER AND GAMBLE ONNARD I	Online		NA	N/A		19.87				NotHybrid				
CAM_SCE_DR_Allocation	_EXISTING_GENERIC_DR		Online		NA	NA		4.69				NotHybrid				
CAM_SCE_CPE_Allocation	_EXISTING_GENERIC_PEAKER		Online		NA	NA		483.13				NotHybrid				
VAMO_SCE_1	_EXISTING_GENERIC_SOLAR_1AXIS		Online		NA	NA						NotHybrid				
VAMO_SCE_2	_EXISTING_GENERIC_WIND		Online		NA	NA						NotHybrid				
VAMO_SCE_3	_EXISTING_GENERIC_GEOTHERMAL		Online		NA	NA						NotHybrid				
VAMO_SCE_4	XISTING_GENERIC_INSTATE_SMALL_HYDRO		Online		NA	NA						NotHybrid				
GHGFREE_SCE_1	XISTING_GENERIC_INSTATE_LARGE_HYDRO		Online		NA	NA						NotHybrid				
GHGFREE_SCE_2	_EXISTING_GENERIC_NUCLEAR		Online		NA	NA						NotHybrid				
DCE_Generic_Solar_PPA_1	_NEW_GENERIC_SOLAR_1AXIS		PlannedNew	solar_CAISO_planned	NA	NA		49				NewSolarNewStorage	YES	49	49	0
DCE_Generic_Solar_PPA_2	_NEW_GENERIC_SOLAR_1AXIS		PlannedNew	solar_CAISO_planned	NA	NA		13				NewSolarNewStorage	YES	13	13	0
DCE_Generic_Solar_PPA_3	_NEW_GENERIC_SOLAR_1AXIS		PlannedNew	solar_CAISO_planned	NA	NA		11				NewSolarNewStorage	YES	11	11	0
DCE_Generic_Storage_PPA_1	_NEW_GENERIC_BATTERY_STORAGE		PlannedNew	battery_CAISO_planned	NA	NA		49				NewSolarNewStorage	YES	0	0	49
DCE_Generic_Storage_PPA_2	_NEW_GENERIC_BATTERY_STORAGE		PlannedNew	battery_CAISO_planned	NA	NA		13				NewSolarNewStorage	YES	0	0	13
DCE_Generic_Storage_PPA_3	_NEW_GENERIC_BATTERY_STORAGE		PlannedNew	battery_CAISO_planned	NA	NA		11				NewSolarNewStorage	YES	0	0	11
DCE_Generic_DDS_Wind_PPA	_NEW_GENERIC_WIND_DDS_42MW		PlannedNew	wind_import_planned	NA	NA		12				NotHybrid				
DCE_Generic_Wind_PPA	_EXISTING_GENERIC_WIND		PlannedExisting	wind_CAISO_planned	NA	NA		11				NotHybrid				
DCE_Generic_ST_RPS_1	_EXISTING_GENERIC_SOLAR_1AXIS		PlannedExisting	solar_CAISO_planned	NA	NA						NotHybrid				
DCE_Generic_ST_RPS_2	_EXISTING_GENERIC_WIND		PlannedExisting	wind_CAISO_planned	NA	NA						NotHybrid				
DCE_Generic_ST_RPS_3	_EXISTING_GENERIC_GEOTHERMAL		PlannedExisting	geothermal_CAISO_planned	NA	NA						NotHybrid				
DCE_Generic_ST_RPS_4	XISTING_GENERIC_INSTATE_SMALL_HYDRO		PlannedExisting	hydro_CAISO_planned	NA	NA						NotHybrid				
DCE_Generic_ST_GHGFree	_EXISTING_GENERIC_NW_HYDRO		PlannedExisting	hydro_import_planned	NA	NA						NotHybrid				
DCE_Generic_ST_RA_1	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		33.92402206				NotHybrid				
DCE_Generic_ST_RA_2	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		57.42377686				NotHybrid				
DCE_Generic_ST_RA_3	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		83.76713669				NotHybrid				
DCE_Generic_ST_RA_4	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		76.87561861				NotHybrid				
DCE_Generic_ST_RA_5	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		61.82118079				NotHybrid				
DCE_Generic_ST_RA_6	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		65.19170251				NotHybrid				
DCE_Generic_ST_RA_7	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		70.99997873				NotHybrid				
DCE_Generic_ST_RA_8	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		79.11030019				NotHybrid				
DCE_Generic_ST_RA_9	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		86.40113168				NotHybrid				
DCE_Generic_ST_RA_10	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		81.03131246				NotHybrid				
DCE_Generic_ST_RA_11	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		79.78129954				NotHybrid				
DCE_Generic_ST_RA_12	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		78.67160436				NotHybrid				
DCE_Generic_ST_RA_13	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		70.4082771				NotHybrid				
DCE_Generic_ST_RA_14	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		69.31803326				NotHybrid				
DCE_Generic_ST_RA_15	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		75.22318873				NotHybrid				
DCE_Generic_ST_RA_16	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		73.4777266				NotHybrid				
DCE_Generic_ST_RA_17	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		72.56809814				NotHybrid				
DCE_Generic_ST_RA_18	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		71.18991693				NotHybrid				
DCE_Generic_ST_RA_19	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		69.74072239				NotHybrid				
DCE_Generic_ST_RA_20	_EXISTING_GENERIC_COMBINED_CYCLE		PlannedExisting	cogt_CAISO_planned	NA	NA		69.12874111				NotHybrid				
DCE_ST_RA_SENT_2	SENTNL_2_CTG3	SENTINEL UNIT 3	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_3	PACLUM_6_UNIT	HUMBOLDT REDWOOD	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_4	PACLUM_6_UNIT	HUMBOLDT REDWOOD	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_5	PACLUM_6_UNIT	HUMBOLDT REDWOOD	Online		NA	NA						NotHybrid				
DCE_ST_RA_RCEA_6	_EXISTING_GENERIC_BATTERY_STORAGE	SANDWK_2_SUBT1, Sandrini Sol 1 BESS	Online		NA	NA		77				ExistingSolarExistingStorage	NO	0	0	92
DCE_ST_RA_CHEV_5	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_6	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_7	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_8	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_9	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_10	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_11	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_12	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_13	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_14	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_15	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_16	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_17	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_18	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_19	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_20	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_21	SYCAMR_2_UNIT 2	SYCAMORE COGENERATION UNIT 2	Online		NA	NA						NotHybrid				
DCE_ST_RA_CHEV_22	OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	Online		NA	NA						NotHybrid				

contracted_storage_mw	solar_technology_sub_type	storage_technology_sub_type	total_storage_depth_mwh	contracted_storage_depth_mwh	viability_cod_reasonableness	viability_technical_feasibility	viability_financing_siteControl	resource_mix	d1911016_vamo_ghgfree	buy_sell_own	counterparty	generator_supplier	developer_name	capacity_area	capacity_sub_area	cpuc_approval_ref	county	COD_year	COD_month	COD_day
								[wind, 10.8]					NA	LABasin	LA Basin Eastern		RiversideCounty	2021	5	4
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	SCE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	SCE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	SCE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
								[dr, 0.41]					NA	PacGE	No_sub_area		California	2023	1	1
					4	2	4	[geothermal, 4]					Cape Generating Station I LLC	LDWP	No_sub_area		Utah	2031	1	1
		Li	3200	168	4	2	2	[battery, 21]					Aypa Power / Baisum Project LLC	LABasin	LA Basin Eastern		SanBernardinoCount	2028	8	1
		Li	400	172	4	2	5	[battery, 43]					Athos Storage, LLC	SCE	No_sub_area		RiversideCounty	2027	2	1
								[wind, 12.6]					NA	LABasin	LA Basin Eastern		RiversideCounty	2016	2	5
								[wind, 9.8]					NA	LABasin	LA Basin Eastern		RiversideCounty	2021	6	24
								[wind, 11.2]					NA	LABasin	LA Basin Eastern		RiversideCounty	2015	1	26
6.25	1Axis	Li	144	25				[battery, 6.25]		Sell	Redwood Coast Energy Authority		NA	SCE	No_sub_area		California	2025	5	8
28.28	1Axis	Li	144	113.12				[battery, 28.28]		Buy	Valley Clean Energy		NA	SCE	No_sub_area		California	2025	5	8
5.19	1Axis	Li	144	20.76				[battery, 5.19]		Buy	Valley Clean Energy		NA	SCE	No_sub_area		California	2025	5	8
								[ccgt, 6]		Sell	Valley Clean Energy		NA	PacGE	No_sub_area		California	2001	7	6
								[ccgt, 14]		Sell	Valley Clean Energy		NA	PacGE	No_sub_area		California	2001	7	6
								[ccgt, 5.5]		Sell	Valley Clean Energy		NA	PacGE	No_sub_area		California	2001	7	6
								[wind, 3.95]		Sell	Valley Clean Energy		NA	LABasin	LA Basin Eastern		RiversideCounty	2021	5	4
								[wind, 3.59]		Sell	Valley Clean Energy		NA	LABasin	LA Basin Eastern		RiversideCounty	2021	6	24
								[wind, 4.61]		Sell	Valley Clean Energy		NA	LABasin	LA Basin Eastern		RiversideCounty	2016	2	5
								[ccgt, 5]		Buy	City of Vernon		NA	LABasin	LA Basin Western		California	2005	10	17
								[ccgt, 5]		Buy	City of Vernon		NA	LABasin	LA Basin Western		California	2005	10	17
								[st, 5]		Buy	Shell Energy North America		NA	LABasin	LA Basin Eastern		California	2013	5	6
								[ccgt, 10]		Buy	Direct Energy Business		NA	PacGE	No_sub_area		California	2001	7	6
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[chp, 1]					NA	PacGE	No_sub_area		California	1991	10	11
								[chp, 9]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 2]					NA	LABasin	LA Basin Eastern		California	2013	5	6
								[ccgt, 5]		Buy	Redwood Coast Energy Authority		NA	PacGE	No_sub_area		California	2001	7	6
								[ccgt, 5]		Sell	Calpine Energy Solutions		NA	SCE	No_sub_area		California	2003	4	21
	1Axis							[solar, 25]		Buy	University of California		NA	GreaterFresno	Greater Fresno Panoche		California	2016	10	6
								[ccgt, 10]		Buy	Direct Energy Business		NA	PacGE	No_sub_area		California	2001	7	6
								[thermal, 5]		Buy	Shell Energy North America		NA	PacGE	No_sub_area		California	2001	8	11
		Li		31.72				[battery, 7.93]	D.19-11-016				NA				California			
		Li		30.4				[battery, 7.6]	D.19-11-016				NA				California			
		Li		22.16				[battery, 5.54]	D.19-11-016				NA				California			
		Li		9.04				[battery, 2.26]	D.19-11-016				NA				California			
		Li		3.68				[battery, 0.92]	D.19-11-016				NA				California			
					1	1	1	[geothermal, 1]					NA					2032	6	1
					1	1	1	[geothermal, 1]					NA					2035	6	1
					1	1	1	[wind, 3.2]					NA					2036	6	1
					1	1	1	[wind, 2.99]					NA					2038	6	1
					1	1	1	[wind, 3.41]					NA					2041	6	1
					1	1	1	[wind, 2.13]					NA					2042	6	1
					1	1	1	[wind, 2.13]					NA					2043	6	1
					1	1	1	[wind, 2.13]					NA					2044	6	1
		Other	50000	100	1	1	1	[battery, 1]					NA					2032	6	1
		Other	50000	100	1	1	1	[battery, 1]					NA					2033	6	1
		Other	12000	24	1	1	1	[battery, 1]					NA					2034	6	1
		Other	12000	24	1	1	1	[battery, 1]					NA					2035	6	1
		Li	80	0.395014294					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
		Li	40	0.197507147					CAM		Southern California Edison									
		Li	40	0.197507147					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
		Li	401.8	1.983959291					CAM		Southern California Edison									
		Li	400	1.97507147					CAM		Southern California Edison									
		Li	160.133	0.790685299					CAM		Southern California Edison									
		Li	40	0.197507147					CAM		Southern California Edison									
		Li	44	0.217257862					CAM		Southern California Edison									
		Li	40	0.198753573					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
				0					CAM		Southern California Edison									
									CAM		Southern California Edison		NA					2026	1	1
	1Axis								CAM		Southern California Edison		NA					2013	3	21
									VAMO		Southern California Edison		NA							
									VAMO		Southern California Edison		NA							
									VAMO		Southern California Edison		NA							
									VAMO		Southern California Edison		NA							
									GHG-free PCIA		Southern California Edison		NA							
									GHG-free PCIA		Southern California Edison		NA							
0	1Axis	Li	392	392	1	2	1	[solar, 49]					NA	SCE			California	2030	1	1
0	1Axis	Li	104	104	1	2	1	[solar, 13]					NA	SCE			California	2035	1	1
0	1Axis	Li	88	88	1	2	1	[solar, 11]					NA	SCE			California	2038	1	1
49	1Axis	Li	392	392	1	2	1	[battery, 49]					NA	SCE			California	2030	1	1
13	1Axis	Li	104	104	1	2	1	[battery, 13]					NA	SCE			California	2035	1	1
11	1Axis	Li	88	88	1	2	1	[battery, 11]					NA	SCE			California	2038	1	1
					1	2	1	[wind, 12]					NA				NewMexico	2035	1	1
					1	2	1	[wind, 11]					NA	LABasin			RiversideCounty	2038	1	1
	1Axis												NA				California			
													NA				California			
													NA				California			
													NA				California			
													NA				Washington			
								[ccgt, 33.9240220611872]					NA				California			
								[ccgt, 57.623774855765 2]					NA				California			
								[ccgt, 83.76711969115 87]					NA				California			
								[ccgt, 76.87561861061 87]					NA				California			
								[ccgt, 61.82118078872 87]					NA				California			
								[ccgt, 65.29170250673 92]					NA				California			
								[ccgt, 70.99997872523 45]					NA				California			
								[ccgt, 79.11030019066 83]					NA				California			
								[ccgt, 86.40113597986 39]					NA				California			
								[ccgt, 81.03131246605 02]					NA				California			
								[ccgt, 79.78120954306 61]					NA				California			
								[ccgt, 78.97260435955 53]					NA				California			
								[ccgt, 70.40827710443 25]					NA				California			
								[ccgt, 69.31800216301 47]					NA				California			
								[ccgt, 75.22318873147 42]					NA				California			
								[ccgt, 73.87772659941 86]					NA				California			
								[ccgt, 72.56859813553 06]					NA				California			
								[ccgt, 71.18991692576 18]					NA				California			
								[ccgt, 69.74072238822 07]					NA				California			
								[ccgt, 69.12874110910 39]					NA				California			
								[ct, 18.69]					NA	LABasin	LA Basin Eastern		California	2013	5	6
								[biomass, 3]		Buy	Redwood Coast Energy Authority		NA	Humboldt	No_sub_area		California	2017	6	1
								[biomass, 2]		Buy	Redwood Coast Energy Authority		NA	Humboldt	No_sub_area		California	2017	6	1
								[biomass, 1]		Buy	Redwood Coast Energy Authority		NA	Humboldt	No_sub_area		California	2017	6	1
12		Li	368	48				[battery, 12]		Buy	Redwood Coast Energy Authority		NA	PacGE			California	2026	1	28
								[chp, 5]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 5]					NA	SCE			California	1985	5	1
								[ct, 1]					NA	SCE			California	1985	5	1
								[chp, 4]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[st, 3]					NA	SCE			California	1985	5	1
								[chp, 2]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 5]					NA	SCE			California	1985	5	1
								[st, 4]					NA	SCE			California	1985	5	1
								[chp, 1]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 10]					NA	SCE			California	1985	5	1
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 10]					NA	SCE			California	1985	5	1
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 10]					NA	SCE			California	1985	5	1
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 10]					NA	SCE			California	1985	5	1
								[chp, 10]					NA	BigCreekVentura	No_sub_area		California	1987	1	1
								[ct, 10]					NA	SCE			California	1985	5	1

contract_start_date_year	contract_start_date_month	contract_start_date_day	contract_end_date_year	contract_end_date_month	contract_end_date_day	contract_execution_date_year	contract_execution_date_month	contract_execution_date_day	tx_upgrades	tx_upgrade_date_year	tx_upgrade_date_month	tx_upgrade_date_day	tx_upgrade_description	d2106035_procurement_cat	mtr_tranche1_NQC	mtr_tranche2_NQC	mtr_tranche3_NQC	mtr_tranche4_NQC	mtr_tranche5_NQC	mtr_tranche6_NQC
2021	5	4	2045	12	31	2021	1	8	NA					general	1.5	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2023	1	1	2032	12	31	2022	7	3	NA					general	0.409090909	0	0	0	0	0
2031	1	1	2046	12	31	2022	9	28	YES				r ("LADWP") and PacifiCorp. No issues were identified on potentially affected neighboring systems. Fervo executed a Fac	firm_ZE	0	0	0	0	0	4
2028	8	1	2045	12	31	2025	9	15	YES				ues with permitting have been identified, and the project has received Full Capacity Deliverability Status. The project sit	long_duration_storage	0	0	0	0	0	6.03
2027	2	1	2045	12	31	2025	10	14	YES				mpliance, the project needs to apply annually for Interim Deliverability Status (IDS). The project will not receive Full Cap	general	0	15	0	4.388208726	4.388208726	0
2023	1	1	2045	12	31	2020	12	23	NA					NA	0	0	0	0	0	0
2023	1	1	2045	12	31	2020	12	23	NA					NA	0	0	0	0	0	0
2025	2	1	2045	12	31	2024	12	16	NA					NA	0	0	0	0	0	0
2026	1	1	2026	2	28	2025	10	8	NA					NA	0	0	0	0	0	0
2026	1	1	2026	12	31	2025	9	29	NA					NA	0	0	0	0	0	0
2026	7	1	2026	9	30	2025	9	29	NA					NA	0	0	0	0	0	0
2026	3	1	2026	3	31	2025	10	7	NA					NA	0	0	0	0	0	0
2026	5	1	2026	5	31	2025	10	7	NA					NA	0	0	0	0	0	0
2026	12	1	2026	12	31	2025	10	7	NA					NA	0	0	0	0	0	0
2026	4	1	2026	4	30	2025	10	7	NA					NA	0	10	0	0	0	0
2026	4	1	2026	4	30	2025	10	7	NA					NA	0	0	0	0	0	0
2026	4	1	2026	4	30	2025	10	7	NA					NA	0	0	0	0	0	0
2026	1	1	2026	1	31	2025	7	28	NA					NA	0	0	0	0	0	0
2026	6	1	2026	12	31	2025	7	28	NA					NA	0	0	0	0	0	0
2026	1	1	2026	12	31	2025	1	30	NA					NA	0	1	0	0	0	0
2026	5	1	2026	10	31	2025	1	23	NA					NA	0	0	0	0	0	0
2026	6	1	2026	8	31	2025	4	9	NA					NA	0	0	0	0	0	0
2026	9	1	2026	9	30	2025	4	9	NA					NA	0	0	0	0	0	0
2026	9	1	2026	9	30	2025	4	9	NA					NA	0	0	0	0	0	0
2026	10	1	2026	10	31	2025	4	9	NA					NA	0	0	0	0	0	0
2026	1	1	2026	12	31	2025	4	10	NA					NA	0	0	0	0	0	0
2026	6	1	2026	10	31	2025	4	25	NA					NA	0	0	0	0	0	0
2026	11	1	2026	11	30	2025	4	30	NA					NA	0	0	0	0	0	0
2026	6	1	2026	9	30	2025	5	7	NA					NA	0	0	0	0	0	0
2026	1	1	2026	12	31	2024	11	21	NA					NA	0	11	0	0	0	0
2026	1	1	2026	12	31	2024	12	13	NA					NA	0	0	0	0	0	0
2024	6	1	2031	5	31				NA					NA	0	0	0	0	0	0
2031	6	1	2034	5	31				NA					NA	0	0	0	0	0	0
2034	6	1	2036	5	31				NA					NA	0	0	0	0	0	0
2036	6	1	2037	5	31				NA					NA	0	0	0	0	0	0
2037	6	1	2041	7	31				NA					NA	0	0	0	0	0	0
2032	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2035	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2036	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2038	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2041	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2042	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2043	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2044	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2032	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2033	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2034	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2035	6	1	2045	12	31				NA					NA	0	0	0	0	0	0
2036	12	31	2026	12	31				NA					NA						
2007	7	19	2045	12	31				NA					NA						
2007	7	20	2045	12	31				NA					NA						
2007	7	17	2045	12	31				NA					NA						
2009	8	1	2045	12	31				NA					NA						
2007	7	19	2045	12	31				NA					NA						
2017	7	1	2045	12	31				NA					NA						
2017	7	1	2045	12	31				NA					NA						
1987	12	29	2026	8	31				NA					NA						
2020	6	1	2040	5	31				NA					NA						
2020	5	1	2040	4	30				NA					NA						
2020	7	1	2040	6	30				NA					NA						
2020	7	1	2040	6	30				NA					NA						
2021	1	1	2040	12	31				NA					NA						
2021	7	1	2041	3	31				NA					NA						
2024	6	1	2040	10	31				NA					NA						
2021	4	1	2041	3	31				NA					NA						
2021	6	1	2041	3	31				NA					NA						
2026	4	1	2035	10	31				NA					NA						
2020	1	1	2026	12	31				NA					NA						
2020	9	1	2027	7	31				NA					NA						
2026	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2023	6	1	2026	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2040	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2038	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2038	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2040	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2030	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2035	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2038	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2030	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2035	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2038	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2035	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2038	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2027	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2027	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2027	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2030	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2026	1	1	2026	12	31				NA					NA	0	0	0	0	0	0
2027	1	1	2027	12	31				NA					NA	0	0	0	0	0	0
2028	1	1	2028	12	31				NA					NA	0	0	0	0	0	0
2029	1	1	2029	12	31				NA					NA	0	0	0	0	0	0
2030	1	1	2030	12	31				NA					NA	0	0	0	0	0	0
2031	1	1	2031	12	31				NA					NA	0	0	0	0	0	0
2032	1	1	2032	12	31				NA					NA	0	0	0	0	0	0
2033	1	1	2033	12	31				NA					NA	0	0	0	0	0	0
2034	1	1	2034	12	31				NA					NA	0	0	0	0	0	0
2035	1	1	2035	12	31				NA					NA	0	0	0	0	0	0
2036	1	1	2036	12	31				NA					NA	0	0	0	0	0	0
2037	1	1	2037	12	31				NA					NA	0	0	0	0	0	0
2038	1	1	2038	12	31				NA					NA	0	0	0	0	0	0
2039	1	1	2039	12	31				NA					NA	0	0	0	0	0	0
2040	1	1	2040	12	31				NA					NA	0	0	0	0	0	0
2041	1	1	2041	12	31				NA					NA	0	0	0	0	0	0
2042	1	1	2042	12	31				NA					NA	0	0	0	0	0	0
2043	1	1	2043	12	31				NA					NA	0	0	0	0	0	0
2044	1	1	2044	12	31				NA					NA	0	0	0	0	0	0
2045	1	1	2045	12	31				NA					NA	0	0	0	0	0	0
2027	1	1	2027	12	31	2026	3	10	NA					NA	0	0	0	0	0	0
2026	7	1	2026	9	30	2026	4	3	NA					NA	0	0	0	0	0	0
2026	10	1	2026	10	31	2026	4	3	NA					NA	0	0	0	0	0	0
2026	12	1	2026	12	31	2026	4	3	NA					NA	0	0	0	0	0	0
2026	7	1	2026	9	30	2026	4	3	NA					NA	0	0	0	0	0	0
2027	5	1	2027	5	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	6	1	2027	6	30	2026	4	2	NA					NA	0	0	0	0	0	0
2027	7	1	2027	7	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	7	1	2027	7	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	8	1	2027	8	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	8	1	2027	8	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	9	1	2027	9	30	2026	4	2	NA					NA	0	0	0	0	0	0
2027	10	1	2027	10	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	10	1	2027	10	31	2026	4	2	NA					NA	0	0	0	0	0	0
2027	1	1	2027	1	31	2026	4	16	NA					NA	0	0	0	0	0	0
2027	2	1	2027	2	28	2026	4	16	NA					NA	0	0	0	0	0	0
2027	3	1	2027	3	31	2026	4	16	NA					NA	0	0	0	0	0	0
2027	4	1	2027	4	30	2026	4	16	NA					NA	0	0	0	0	0	0
2027	5	1	2027	5	31	2026	4	16	NA					NA	0	0	0	0	0	0
2027	6	1	2027	6	30	2026	4	16	NA					NA	0	0	0	0	0	0
2027	7	1	2027	9	30	2026	4	16	NA					NA	0	0	0	0	0	0
2027	10	1	2027	11	30	2026	4	16	NA					NA	0	0	0	0	0	0
2027	12	1	2027	12	31	2026	4	16	NA					NA	0	0	0	0	0	0

mtr_NQC_ZE_gen_paired_dr	mtr_bridge_to	contract_changed	previous_COD_year	previous_COD_month	previous_COD_day	remediation_plan	signed_contract	notice_to_proceed	public_contract	buying_energy_capacity	NQC_reporting_source	procurement_origin	planned_project_retention_priority	cup_resource_category	cup_annual_2028	cup_annual_2030	cup_annual_2035	cup_annual_2040	cup_annual_2045	macro_supertype	notes
0		NO	2021	5	4	NO	YES	NO	ledacted contract is publi	EnergyCapacity	Calculated	RPS		Wind Baseline California (GWh)	36.00	36.00	36.00	36.00	36.00	physical	Contract assumed extended to 2045.
0		NO	2023	1	1	NO	YES	NO	ledacted contract is publi	CapacityOnly	Calculated	MTR		NA						newgeneric	03_PGSI_1_PDRP10_PGEN_2_PDRP06_PGN8_2_F

BTM PV Capacity Forecast (MW) - updated with 2025 Filing Requirements release

Service Ar	Type	LSE CPUC	LSE Name	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
PGE	IOU	PGE	Pacific Gas & Electric Company (Bundled)	2,670	2,775	2,827	3,128	3,413	3,626	3,760	3,962	4,026	4,060	4,100	4,148	4,200	4,254	4,310	4,370	4,429	4,491	4,555	4,619
PGE	ESP		Pacific Gas & Electric Company (Direct Access)	1,158	1,182	1,127	1,095	1,072	1,054	1,049	1,035	1,005	979	961	947	938	930	926	925	924	925	928	933
PGE	CCA	MBCPA	Central Coast Community Energy	522	536	525	534	552	572	599	626	643	662	678	694	710	725	742	758	774	790	806	821
PGE	CCA	CPSF	CleanPowerSF	353	364	380	387	400	412	430	445	454	462	470	478	486	494	502	510	519	527	535	543
PGE	CCA	EBCE	Ava Community Energy	994	1,032	1,198	1,221	1,291	1,378	1,458	1,491	1,508	1,524	1,542	1,555	1,568	1,581	1,598	1,616	1,634	1,653	1,672	1,692
PGE	CCA	KCCP	King City Community Power (KCCP)	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
PGE	CCA	MCE	Marin Clean Energy	611	617	593	591	599	608	625	641	647	653	660	667	675	683	692	701	709	718	727	736
PGE	CCA	PCEA	Peninsula Clean Energy Authority	384	394	386	394	419	443	465	485	500	515	529	543	557	570	584	598	612	626	639	652
PGE	CCA	PIONEER	Pioneer Community Energy	185	232	361	395	406	416	432	445	452	458	464	471	478	484	492	500	509	518	526	534
PGE	CCA	RCEA	Redwood Coast Energy Authority	57	58	57	59	61	63	67	70	72	74	76	79	81	82	85	87	89	91	93	95
PGE	CCA	SJCE	San José Clean Energy (SJCE)	490	548	750	794	809	832	826	827	812	823	834	845	856	866	876	887	898	909	921	934
PGE	CCA	SVCEA	Silicon Valley Clean Energy Authority	441	470	469	492	516	533	551	567	574	583	591	599	608	616	625	635	644	653	662	672
PGE	CCA	SOMA	Sonoma Clean Power	228	235	231	236	245	255	269	281	290	299	308	316	325	332	341	349	358	366	374	382
PGE	CCA	VCEA	Valley Clean Energy Alliance	74	76	73	74	76	77	80	82	84	85	86	87	88	90	91	92	94	95	97	98
SCE	IOU	SCE	Southern California Edison Company (Bundled)	3,848	4,035	4,266	4,519	4,796	5,073	5,333	5,594	5,739	5,880	6,017	6,153	6,280	6,406	6,534	6,658	6,782	6,907	7,032	7,157
SCE	ESP		Southern California Edison Company (Direct Ac	879	927	947	963	979	995	1,006	1,014	998	982	976	972	969	968	969	972	975	981	990	1,000
SCE	CCA	AVCE	Apple Valley Choice Energy	17	18	19	20	22	23	24	25	25	26	26	27	27	28	28	29	29	30	30	31
SCE	CCA	MBCPA	Central Coast Community Energy	38	41	44	46	49	52	54	57	58	59	61	62	63	64	65	66	67	68	70	71
SCE	CCA	CPASC	Clean Power Alliance	833	887	954	1,020	1,094	1,164	1,231	1,297	1,337	1,374	1,401	1,428	1,453	1,477	1,503	1,528	1,554	1,580	1,606	1,633
SCE	CCA	DCE	Desert Community Energy	27	29	31	33	35	37	39	41	42	43	44	45	46	46	47	48	49	50	51	52
SCE	CCA	PALMDALE	Energy for Palmdale's Independent Choice (EP	36	38	41	44	47	50	53	55	57	58	59	60	62	63	64	65	66	68	69	70
SCE	CCA	LCE	Lancaster Choice	44	47	50	54	58	61	64	67	69	71	72	74	75	76	78	79	81	82	83	85
SCE	CCA	OCPA	Orange County Power Authority	173	182	194	205	217	228	239	249	254	259	264	268	273	277	281	285	290	294	299	303
SCE	CCA	PRIME	Pico Rivera Innovative Municipal Energy	15	16	17	18	19	21	21	22	23	23	24	24	25	25	26	26	26	27	27	28
SCE	CCA	POMONA	Pomona Choice Energy	31	33	35	38	40	43	45	47	48	49	50	51	52	53	54	55	56	57	58	59
SCE	CCA	RMEA	Rancho Mirage Energy Authority	21	22	24	25	27	28	30	31	32	33	33	34	35	35	36	37	37	38	39	40
SCE	CCA	SJP	San Jacinto Power	13	14	15	16	17	18	19	20	20	21	21	21	22	22	23	23	24	24	25	25
SCE	CCA	SBCE	Santa Barbara Clean Energy	25	26	29	31	33	35	38	40	42	43	45	46	48	49	50	52	53	55	56	57
SDGE	IOU	SDGE	San Diego Gas & Electric Company (Bundled)	433	407	437	458	480	504	526	549	565	591	607	621	633	647	666	677	687	696	705	713
SDGE	ESP		San Diego Gas & Electric Company (Direct Acc	543	550	544	539	533	529	521	513	498	481	469	461	454	449	443	440	437	436	436	436
SDGE	CCA	CEA	Clean Energy Alliance	328	343	358	373	389	404	416	428	435	440	446	451	457	462	467	473	478	484	489	495
SDGE	CCA	SDCP	San Diego Community Power	1,123	1,219	1,275	1,341	1,408	1,471	1,526	1,580	1,612	1,635	1,663	1,690	1,716	1,741	1,758	1,782	1,806	1,830	1,853	1,877

*Source : CEDU 2024 Demand Side Modelling and LSE Load Forecast

Reliability Need - updated with 2025 Filing Requirements release

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
CAISO gross peak (MW)	55,445	56,568	58,624	60,556	62,505	64,292	66,076	68,093	69,939	71,976	73,218	74,668	76,057	77,338	78,968	79,726	80,523	81,423	82,089	82,936
PRM (%)	16%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	14%	14%	14%	14%	14%	14%	14%	14%
CAISO Total Reliability Need (TRN) (MW)	64,088	65,238	67,457	69,522	71,597	73,685	75,771	78,127	80,290	82,674	83,983	85,527	86,996	88,337	90,073	90,937	91,846	92,873	93,633	94,599
CAISO Reliability Procurement Need (RPN) (MW)	53,361	54,394	55,427	50,516	45,606	47,269	48,932	50,595	52,259	53,922	55,180	56,437	57,695	58,953	60,210	60,949	61,688	62,427	63,167	63,906
LSE share of load during critical hours (%)	0.24%	0.24%	0.24%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%	0.24%	0.24%	0.23%	0.23%	0.23%	0.22%	0.22%	0.21%	0.21%	0.21%
LSE reliability procurement requirement (RPR) (MW)	127	130	133	124	114	118	121	125	128	132	133	134	135	135	136	135	134	134	133	132

BTM PV Forecast - updated with 2025 Filing Requirements release

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Capacity (MW)	27	29	31	33	35	37	39	41	42	43	44	45	46	46	47	48	49	50	51	52

ELCC (%) - updated with 2025 Filing Requirements release

Resource Type	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
in_state_wind_south	20%	18%	15%	15%	15%	16%	17%	18%	19%	19%	18%	16%	14%	12%	11%	11%	11%	11%	12%	12%
in_state_wind_north	30%	28%	26%	31%	35%	35%	35%	35%	35%	35%	33%	31%	28%	26%	24%	24%	24%	25%	25%	26%
out_of_state_wind_WY	44%	44%	44%	41%	37%	38%	39%	40%	41%	41%	39%	37%	35%	33%	30%	32%	33%	35%	36%	38%
out_of_state_wind_IDWAOR	27%	22%	17%	21%	25%	26%	27%	27%	28%	29%	27%	25%	23%	22%	20%	20%	20%	19%	19%	19%
out_of_state_wind_AZNM	43%	43%	43%	39%	36%	37%	38%	40%	41%	42%	39%	37%	34%	32%	29%	30%	31%	32%	33%	34%
offshore_wind_north	62%	65%	69%	63%	57%	55%	53%	51%	48%	46%	44%	42%	40%	38%	36%	36%	36%	36%	36%	36%
offshore_wind_south	42%	45%	47%	39%	30%	29%	28%	26%	25%	23%	22%	20%	19%	18%	16%	17%	19%	20%	21%	22%
utility_pv	8%	9%	10%	10%	10%	11%	11%	11%	11%	11%	11%	12%	12%	13%	13%	13%	12%	12%	11%	11%
btm_pv	7%	8%	8%	8%	7%	8%	8%	8%	9%	9%	10%	10%	10%	11%	11%	11%	10%	10%	9%	9%
4hr_batteries	92%	84%	75%	49%	22%	21%	20%	19%	18%	17%	17%	17%	17%	17%	17%	17%	17%	16%	16%	16%
8hr_batteries	97%	92%	87%	63%	39%	36%	32%	29%	25%	22%	24%	25%	27%	28%	30%	30%	31%	31%	32%	32%
12hr_batteries	94%	92%	91%	69%	47%	42%	37%	32%	27%	22%	24%	25%	27%	28%	30%	30%	31%	31%	32%	32%
24hr_batteries	96%	94%	92%	74%	56%	50%	44%	37%	31%	25%	27%	29%	30%	32%	34%	34%	34%	34%	34%	35%
100hr_batteries	99%	99%	98%	86%	74%	69%	64%	58%	53%	48%	49%	50%	51%	52%	53%	53%	52%	52%	51%	51%
pumped_storage	90%	87%	85%	66%	48%	43%	37%	32%	27%	22%	24%	25%	27%	28%	30%	30%	31%	31%	32%	32%
demand_response	94%	85%	76%	59%	42%	36%	30%	24%	18%	12%	12%	11%	11%	11%	11%	10%	10%	10%	9%	9%
hydro	69%	66%	63%	57%	50%	48%	46%	44%	43%	41%	40%	39%	39%	38%	37%	36%	36%	35%	35%	34%
small_hydro	42%	39%	36%	33%	30%	28%	26%	24%	22%	21%	21%	21%	21%	21%	21%	20%	20%	20%	19%	19%
geothermal	91%	91%	92%	89%	87%	87%	87%	87%	87%	87%	87%	88%	88%	88%	88%	89%	89%	89%	89%	90%
biomass_wood	100%	99%	99%	99%	99%	99%	99%	98%	98%	98%	98%	98%	99%	99%	99%	99%	98%	98%	98%	98%
biogas	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
nuclear	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
gas_cc	86%	85%	85%	83%	82%	82%	82%	83%	83%	83%	84%	85%	86%	87%	88%	87%	87%	86%	85%	84%
gas_ct	69%	69%	69%	65%	62%	62%	62%	62%	61%	61%	64%	66%	69%	71%	74%	72%	71%	70%	68%	67%
cogen	92%	91%	91%	91%	90%	90%	90%	90%	90%	90%	91%	92%	92%	93%	N/A	N/A	N/A	N/A	N/A	N/A
ice	94%	94%	94%	94%	93%	93%	93%	93%	93%	93%	94%	94%	95%	95%	96%	95%	95%	95%	94%	94%

Contract ELCC (effective MW)

Resource Type	Conrtact Status	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
hybrid	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Online	9	8	7	7	7	7	8	8	8	9	8	7	6	6	5	5	5	5	5	5
in_state_wind_north	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WY	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_IDWAOR	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_north	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_south	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
btm_pv	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Online	35	8	7	5	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
8hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Online	9	8	7	5	4	3	3	1	1	1	1	1	1	1	1	0	0	0	0	0
hydro	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	Online	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Online	31	6	6	6	5	5	5	5	6	6	6	6	6	6	-	-	-	-	-	-
gas_ct	Online	8	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
cogen	Online	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ice	Online	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WY	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_IDWAOR	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_north	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_south	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
btm_pv	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Development	-	36	32	21	10	9	9	8	8	7	7	7	7	7	7	7	7	7	7	7
8hr_batteries	Development	-	-	-	13	8	7	7	6	5	5	5	5	6	6	6	6	6	7	7	7
12hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hydro	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Development	-	-	-	-	-	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
biomass_wood	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cogen	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ice	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WY	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_IDWAOR	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_north	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind_south	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
btm_pv	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hydro	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

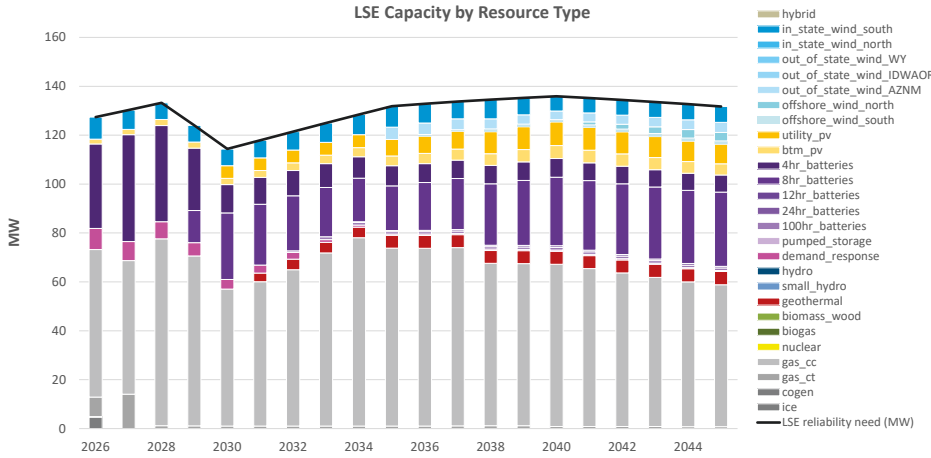
nuclear	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cogen	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ice	Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	1	1	1	1	
in_state_wind_north	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_WY	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_IDWAOR	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_AZNM	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
offshore_wind_north	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
offshore_wind_south	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
utility_pv	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
btm_pv	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pumped_storage	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
demand_response	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
hydro	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
small_hydro	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
geothermal	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
biomass_wood	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
biogas	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
nuclear	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
gas_cc	PlannedExisting	29	49	71	64	51	54	58	65	72	67	67	67	61	60	66	65	63	61	59	58	
gas_ct	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
cogen	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ice	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
hybrid	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
in_state_wind_south	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
in_state_wind_north	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_WY	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_IDWAOR	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
out_of_state_wind_AZNM	PlannedNew	-	-	-	-	-	-	-	-	-	5	5	4	4	4	4	4	4	4	4	4	
offshore_wind_north	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	4	4	
offshore_wind_south	PlannedNew	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	
utility_pv	PlannedNew	-	-	-	-	5	5	5	5	5	7	7	7	9	9	10	9	9	9	8	8	
btm_pv	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8hr_batteries	PlannedNew	-	-	-	-	19	17	16	14	12	14	15	16	19	21	22	22	22	23	23	24	
12hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	0	1	1	1	1	1	1	1	1	1	1	1	
100hr_batteries	PlannedNew	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
pumped_storage	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
demand_response	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
hydro	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
small_hydro	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
geothermal	PlannedNew	-	-	-	-	-	-	1	1	1	2	2	2	2	2	2	2	2	2	2	2	
biomass_wood	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
biogas	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
nuclear	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
gas_cc	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
gas_ct	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
cogen	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ice	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LSE total supply (effective MW)		**125**	**128**	**131**	**122**	**112**	**115**	**118**	**121**	**125**	**128**	**129**	**129**	**130**	**130**	**131**	**130**	**129**	**129**	**128**	**127**	

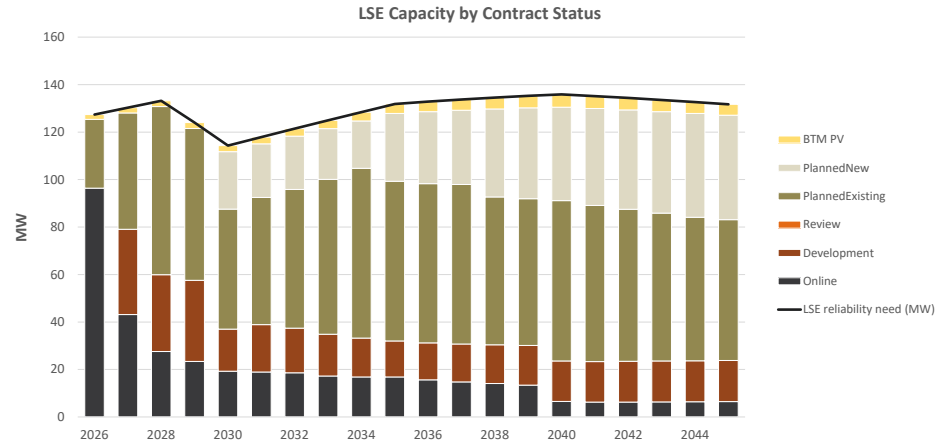
Load and Resource Table by Resource Type

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
LSE reliability need (MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
ELCC by resource type (effective MW)																				
hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	9	8	7	7	7	7	8	8	8	9	8	7	8	7	6	6	6	6	6	7
in_state_wind_north	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_IDWAOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	-	-	-	-	-	-	-	-	-	5	5	4	4	4	4	4	4	4	4	4
offshore_wind_north	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	4	4
offshore_wind_south	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1
utility_pv	-	-	-	-	5	5	5	5	5	7	7	7	9	9	10	9	9	9	8	8
btm_pv	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5
4hr_batteries	35	44	39	26	12	11	10	10	9	8	8	8	8	8	8	7	7	7	7	7
8hr_batteries	-	-	-	13	27	25	22	20	18	18	20	21	25	27	28	28	29	29	30	30
12hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24hr_batteries	-	-	-	-	-	-	-	-	0	1	1	1	1	1	1	1	1	1	1	1
100hr_batteries	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
pumped_storage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	9	8	7	5	4	3	3	1	1	1	1	1	1	1	1	0	0	0	0	0
hydro	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	-	-	-	-	-	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5
biomass_wood	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
biogas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	60	55	76	69	56	59	64	71	77	73	73	73	66	66	66	65	63	61	59	58
gas_ct	8	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
cogen	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ice	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSE total supply (effective MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
Net capacity position (+ve = excess, -ve = shortfall) (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Load and Resource Table by Contract Status

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
LSE reliability need (MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
ELCC by contract status (effective MW)																				
Online	96	43	28	23	19	19	19	17	17	17	16	15	14	13	7	6	6	6	6	6
Development	-	36	32	34	18	20	19	18	16	15	16	16	16	17	17	17	17	17	17	17
Review	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PlannedExisting	29	49	71	64	51	54	58	65	72	67	67	67	62	62	68	66	64	62	60	59
PlannedNew	-	-	-	-	24	23	22	21	20	29	30	31	37	38	39	41	42	43	44	44
BTM PV	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5
LSE total supply (effective MW)	**127**	**130**	**133**	**124**	**114**	**118**	**121**	**125**	**128**	**132**	**133**	**134**	**135**	**135**	**136**	**135**	**134**	**134**	**133**	**132**
Net capacity position (+ve = excess, -ve = shortfall) (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-


LSE Capacity by Resource Type
MW
160
140
120
100
80
60
40
20
0
2026
2028
2030
2032
2034
2036
2038
2040
2042
2044
hybrid
in_state_wind_south
in_state_wind_north
out_of_state_wind_WY
out_of_state_wind_IDWAOR
out_of_state_wind_AZNM
offshore_wind_north
offshore_wind_south
utility_pv
btm_pv
4hr_batteries
8hr_batteries
12hr_batteries
24hr_batteries
100hr_batteries
pumped_storage
demand_response
hydro
small_hydro
geothermal
biomass_wood
biogas
nuclear
gas_cc
gas_ct
cogen
ice
LSE reliability need (MW)


LSE Capacity by Contract Status
MW
160
140
120
100
80
60
40
20
0
2026
2028
2030
2032
2034
2036
2038
2040
2042
2044
BTM PV
PlannedNew
PlannedExisting
Review
Development
Online
LSE reliability need (MW)

elcc type (/	start year	end year	hybrid stor	short dura	resource co	multiplier	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
in_state_w	2021	2045	100%	100%	10.8	1	2.18484	1.92078	1.65672	1.65996	1.6632	1.74852	1.83384	1.91916	2.00448	2.0898	1.904688	1.719576	1.534464	1.349352	1.16424	1.185408	1.206576	1.227744	1.248912	1.27008
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2023	2032	100%	100%	0.409091	1	0.383407	0.346918	0.310428	0.241809	0.17319	0.148293	0.123395	0	0	0	0	0	0	0	0	0	0	0	0	0
geotherma	2031	2046	100%	100%	4	1	0	0	0	0	0	3.48384	3.48368	3.48352	3.48336	3.4832	3.4936	3.504	3.5144	3.5248	3.5352	3.54632	3.55744	3.56856	3.57968	3.5908
8hr_batter	2029	2045	100%	100%	21	1	0	0	0	13.19535	8.169	7.4592	6.7494	6.0396	5.3298	4.62	4.9476	5.2752	5.6028	5.9304	6.258	6.363	6.468	6.573	6.678	6.783
4hr_batter	2027	2045	100%	100%	43	1	0	35.92865	32.3919	20.96895	9.546	9.0558	8.5656	8.0754	7.5852	7.095	7.1294	7.1638	7.1982	7.2326	7.267	7.2068	7.1466	7.0864	7.0262	6.966
in_state_w	2023	2045	100%	100%	12.6	1	2.54898	2.24091	1.93284	1.93662	1.9404	2.03994	2.13948	2.23902	2.33856	2.4381	2.222136	2.006172	1.790208	1.574244	1.35828	1.382976	1.407672	1.432368	1.457064	1.48176
in_state_w	2023	2045	100%	100%	9.8	1	1.98254	1.74293	1.50332	1.50626	1.5092	1.58662	1.66404	1.74146	1.81888	1.8963	1.728328	1.560356	1.392384	1.224412	1.05644	1.075648	1.094856	1.114064	1.133272	1.15248
in_state_w	2025	2045	100%	100%	11.2	1	2.26576	1.99192	1.71808	1.72144	1.7248	1.81328	1.90176	1.99024	2.07872	2.1672	1.975232	1.783264	1.591296	1.399328	1.20736	1.229312	1.251264	1.273216	1.295168	1.31712
4hr_batter	2026	2025	100%	100%	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2026	2026	100%	100%	28.28	1	25.95538	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2027	2025	100%	100%	5.19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2025	100%	100%	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2025	100%	100%	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2027	2026	100%	100%	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
in_state_w	2026	2025	100%	100%	3.95	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
in_state_w	2026	2025	100%	100%	3.59	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
in_state_w	2026	2025	100%	100%	4.61	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2025	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2026	100%	100%	5	1	4.275789	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2026	2026	100%	100%	5	1	3.474557	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2026	100%	100%	10	1	8.551578	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cogen	2026	2025	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cogen	2027	2025	100%	100%	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cogen	2027	2025	100%	100%	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cogen	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2026	2026	100%	100%	2	1	1.389823	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2026	100%	100%	5	1	4.275789	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2027	2026	100%	100%	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
utility_pv	2026	2025	100%	100%	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2026	100%	100%	10	1	8.551578	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ice	2026	2026	100%	100%	5	1	4.722938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2024	2030	100%	100%	7.93	1	7.278154	6.625912	5.973669	3.867065	1.76046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2031	2033	100%	100%	7.6	1	0	0	0	0	0	1.60056	1.51392	1.42728	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2034	2035	100%	100%	5.54	1	0	0	0	0	0	0	0	0	0.977256	0.9141	0	0	0	0	0	0	0	0	0	0
4hr_batter	2036	2036	100%	100%	2.26	1	0	0	0	0	0	0	0	0	0	0	0.374708	0	0	0	0	0	0	0	0	0
4hr_batter	2037	2040	100%	100%	0.92	1	0	0	0	0	0	0	0	0	0	0	0	0.153272	0.154008	0.154744	0.15548	0	0	0	0	0
geotherma	2032	2045	100%	100%	1	1	0	0	0	0	0	0	0.87092	0.87088	0.87084	0.8708	0.8734	0.876	0.8786	0.8812	0.8838	0.88658	0.88936	0.89214	0.89492	0.8977
geotherma	2035	2045	100%	100%	1	1	0	0	0	0	0	0	0	0	0	0.8708	0.8734	0.876	0.8786	0.8812	0.8838	0.88658	0.88936	0.89214	0.89492	0.8977
offshore_w	2036	2045	100%	100%	3.2	1	0	0	0	0	0	0	0	0	0	0	0.699328	0.654016	0.608704	0.563392	0.51808	0.557312	0.596544	0.635776	0.675008	0.71424
offshore_w	2038	2045	100%	100%	2.986667	1	0	0	0	0	0	0	0	0	0	0	0	0	0.568124	0.525833	0.483541	0.520158	0.556774	0.593391	0.630007	0.666624
offshore_w	2041	2045	100%	100%	3.413333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.222519	1.222042	1.221564	1.221086	1.220608
offshore_w	2042	2045	100%	100%	2.133333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.763776	0.763477	0.763179	0.76288
offshore_w	2043	2045	100%	100%	2.133333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.763477	0.763179	0.76288
offshore_w	2044	2045	100%	100%	2.133333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.763179	0.76288
100hr_batt	2032	2045	100%	100%	1	1	0	0	0	0	0	0	0.637	0.584	0.531	0.478	0.4886	0.4992	0.5098	0.5204	0.531	0.5266	0.5222	0.5178	0.5134	0.509
100hr_batt	2033	2045	100%	100%	1	1	0	0	0	0	0	0	0	0.584	0.531	0.478	0.4886	0.4992	0.5098	0.5204	0.531	0.5266	0.5222	0.5178	0.5134	0.509
24hr_batte	2034	2045	100%	100%	1	1	0	0	0	0	0	0	0	0	0.3134	0.252	0.2696	0.2872	0.3048	0.3224	0.34	0.341	0.342	0.343	0.344	0.345
24hr_batte	2035	2045	100%	100%	1	1	0	0	0	0	0	0	0	0	0	0.252	0.2696	0.2872	0.3048	0.3224	0.34	0.341	0.342	0.343	0.344	0.345
4hr_batter	2017	2026	100%	100%	0.098754	1	0.090636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2008	2045	100%	100%	0.241946	1	0.168131	0.166964	0.165808	0.158127	0.150482	0.150023	0.149577	0.149143	0.148721	0.148311	0.154661	0.160786	0.1667	0.172416	0.177948	0.174784	0.171665	0.168593	0.16557	0.162595
gas_ct	2008	2045	100%	100%	0.233552	1	0.162298	0.161172	0.160055	0.152641	0.145261	0.144818	0.144388	0.143969	0.143561	0.143166	0.149295	0.155207	0.160916	0.166434	0.171774	0.16872	0.16571	0.162744	0.159825	0.156954
gas_ct	2008	2045	100%	100%	0.225356	1	0.156602	0.155515	0.154438	0.147284	0.140163	0.139736	0.13932	0.138916	0.138523	0.138141	0.144056	0.14976	0.155269	0.160593	0.165746	0.162799	0.159894	0.157033	0.154216	0.151446
gas_ct	2010	2045	100%	100%	0.239774	1	0.166621	0.165465	0.164319	0.156707	0.149131	0.148676	0.148234	0.147804	0.147386	0.14698	0.153272	0.159342	0.165203	0.170868	0.17635	0.173214	0.170124	0.16708	0.164083	0.161135
gas_ct	2008	2045	100%	100%	0.23296	1	0.161886	0.160763	0.159649	0.152254	0.144892	0.144451	0.144021	0.143603	0.143197	0.142803	0.148917	0.154814	0.160508	0.166012	0.171338	0.168292	0.165289	0.162331	0.15942	0.156556
4hr_batter	2018	2045	100%	100%	0.049377	1	0.045318	0.041257	0.037196	0.024079	0.010962	0.010399	0.009836	0.009273	0.00871	0.008147	0.008187	0.008226	0.008266	0.008305	0.008345	0.008276	0.008206	0.008137	0.008068	0.007999
4hr_batter	2018	2045	100%	100%	0.049377	1	0.045318	0.041257	0.037196	0.024079	0.010962	0.010399	0.009836	0.009273	0.00871	0.008147	0.008187	0.008226	0.008266	0.008305	0.008345	0.008276	0.008206	0.008137	0.008068	0.007999
cogen	1988	2025	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2020	2039	100%	100%	3.331452	1	2.848917	2.832974	2.816971	2.771375	2.726411	2.734198	2.74193	2.749605	2.757224	2.764787	2.801576	2.837249	2.871879	2.905532	0	0	0	0	0	0
gas_cc	2020	2039	100%	100%	3.327008	1	2.845117	2.829195	2.813213	2.767678	2.722774	2.730551	2.738272	2.745937	2.753546	2.761099	2.797838	2.833464	2.868048	2.901656	0	0	0	0	0	0
gas_ct	2021	2039	100%	100%	0.245156	1	0.170362	0.169179	0.168007	0.160225	0.152478	0.152013	0.151561	0.151121	0.150694	0.150279	0.156713	0.162919	0.168911	0.174703	0	0	0	0	0	0
gas_ct	2021	2039	100%	100%	0.245156	1	0.170362	0.169179	0.168007	0.160225	0.152478	0.152013	0.151561	0.151121	0.150694	0.150279	0.156713	0.162919	0.168911	0.174703	0	0	0	0	0	0
4hr_batter	2021	2040	100%	100%	0.49599	1	0.455219	0.414424	0.373629	0.241869	0.11011	0.104455	0.098801	0.093147	0.087493	0.081838	0.082235	0.082632	0.083029	0.083425	0.083822	0	0	0	0	0
4hr_batter	2022	2040	100%	100%	0.493768	1	0.45318	0.412568	0.371955	0.240786	0.109616	0.103988	0.098359	0.09273	0.087101	0.081472	0.081867	0.082262	0.082657	0.083052	0.083447	0	0	0	0	0
4hr_batter	2024	2040	100%	50%	0.296261	1	0.135954	0.12377	0.111587	0.072236	0.032885	0.031196	0.029508	0.027819	0.02613	0.024442	0.02456	0.024679	0.024797	0.024916	0.025034	0	0	0	0	0
4hr_batter	2021	2040	100%	100%	0.049377	1	0.045318	0.041257	0.037196	0.024079	0.010962	0.010399	0.009836	0.009273	0.00871	0.008147	0.008187	0.008226	0.008266	0.008305	0.008345	0	0	0	0	0
4hr_batter	2021	2040	100%	100%	0.054314	1	0.04985	0.045382	0.040915	0.026486	0.012058	0.011439	0.010819	0.0102	0.009581	0.008962	0.009005	0.009049	0.009092	0.009136	0.009179	0	0	0	0	0

4hr_batter	2026	2035	100%	100%	0.024688	1	0.022659	0.020628	0.018598	0.012039	0.005481	0.005199	0.004918	0.004636	0.004355	0.004074	0	0	0	0	0	0	0	0	0	0
cogen	2020	2026	100%	100%	0.096383	1	0.088589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cogen	2021	2026	100%	100%	0.095544	1	0.087817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demand_re	2026	2045	100%	100%	4.69	1	4.395546	3.977217	3.558887	2.772206	1.985526	1.700093	1.41466	1.129227	0.843793	0.55836	0.548408	0.538457	0.528505	0.518553	0.508601	0.491692	0.474782	0.457873	0.440964	0.424054
gas_ct	2023	2026	100%	100%	2.79	1	1.938803	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
utility_pv	2026	2040	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
in_state_w	2026	2038	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
geotherma	2026	2038	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hydro	2026	2040	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hydro	2026	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
nuclear	2026	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
utility_pv	2030	2045	100%	100%	49	1	0	0	0	0	5.1254	5.1646	5.2038	5.243	5.2822	5.3214	5.5468	5.7722	5.9976	6.223	6.4484	6.22496	6.00152	5.77808	5.55464	5.3312
utility_pv	2035	2045	100%	100%	13	1	0	0	0	0	0	0	0	0	0	1.4118	1.4716	1.5314	1.5912	1.651	1.7108	1.65152	1.59224	1.53296	1.47368	1.4144
utility_pv	2038	2045	100%	100%	11	1	0	0	0	0	0	0	0	0	0	0	0	0	1.3464	1.397	1.4476	1.39744	1.34728	1.29712	1.24696	1.1968
8hr_batter	2030	2045	100%	100%	49	1	0	0	0	0	19.061	17.4048	15.7486	14.0924	12.4362	10.78	11.5444	12.3088	13.0732	13.8376	14.602	14.847	15.092	15.337	15.582	15.827
8hr_batter	2035	2045	100%	100%	13	1	0	0	0	0	0	0	0	0	0	2.86	3.0628	3.2656	3.4684	3.6712	3.874	3.939	4.004	4.069	4.134	4.199
8hr_batter	2038	2045	100%	100%	11	1	0	0	0	0	0	0	0	0	0	0	0	0	2.9348	3.1064	3.278	3.333	3.388	3.443	3.498	3.553
out_of_sta	2035	2045	100%	100%	12	1	0	0	0	0	0	0	0	0	0	5.0292	4.72848	4.42776	4.12704	3.82632	3.5256	3.63288	3.74016	3.84744	3.95472	4.062
in_state_w	2038	2045	100%	100%	11	1	0	0	0	0	0	0	0	0	0	0	0	0	1.56288	1.37434	1.1858	1.20736	1.22892	1.25048	1.27204	1.2936
utility_pv	2027	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
in_state_w	2027	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
geotherma	2027	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hydro	2027	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hydro	2030	2045	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2026	2026	100%	100%	33.92402	1	29.01039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2027	2027	100%	100%	57.62377	1	0	49.00165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2028	2028	100%	100%	83.76712	1	0	0	70.83084	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2029	2029	100%	100%	76.87562	1	0	0	0	63.95144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2030	2030	100%	100%	61.82118	1	0	0	0	0	50.59354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2031	2031	100%	100%	65.2917	1	0	0	0	0	0	53.58639	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2032	2032	100%	100%	70.99998	1	0	0	0	0	0	0	58.43607	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2033	2033	100%	100%	79.1103	1	0	0	0	0	0	0	0	65.29347	0	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2034	2034	100%	100%	86.40114	1	0	0	0	0	0	0	0	0	71.50854	0	0	0	0	0	0	0	0	0	0	0
gas_cc	2035	2035	100%	100%	81.03131	1	0	0	0	0	0	0	0	0	0	67.24825	0	0	0	0	0	0	0	0	0	0
gas_cc	2036	2036	100%	100%	79.78121	1	0	0	0	0	0	0	0	0	0	0	67.0918	0	0	0	0	0	0	0	0	0
gas_cc	2037	2037	100%	100%	78.9726	1	0	0	0	0	0	0	0	0	0	0	0	67.25745	0	0	0	0	0	0	0	0
gas_cc	2038	2038	100%	100%	70.40828	1	0	0	0	0	0	0	0	0	0	0	0	0	60.69548	0	0	0	0	0	0	0
gas_cc	2039	2039	100%	100%	69.318	1	0	0	0	0	0	0	0	0	0	0	0	0	0	60.45582	0	0	0	0	0	0
gas_cc	2040	2040	100%	100%	75.22319	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.3452	0	0	0	0	0
gas_cc	2041	2041	100%	100%	73.87773	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64.56471	0	0	0	0
gas_cc	2042	2042	100%	100%	72.5686	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62.82372	0	0	0
gas_cc	2043	2043	100%	100%	71.18992	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61.03093	0	0
gas_cc	2044	2044	100%	100%	69.74072	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.18772	0
gas_cc	2045	2045	100%	100%	69.12874	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58.05877
gas_ct	2027	2027	100%	100%	18.69	1	0	12.89777	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
biomass_w	2027	2025	100%	100%	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
biomass_w	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
biomass_w	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4hr_batter	2027	2025	100%	100%	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2027	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2027	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2027	2026	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2026	100%	100%	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2027	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas_ct	2028	2027	100%	100%	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Full Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" optior

Full Portfolio (Online + In-Development + Review + Planned)

Resource	2028	2030	2035	2040	2045	Units	*Type*
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	15	27	35	39	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS Eligible
Biomass	-	-	-	-	-	GWh	RPS Eligible
Geothermal	4	3	43	43	42	GWh	RPS Eligible
Small Hydro	3	2	2	3	1	GWh	RPS Eligible
Wind Resources							
Wind Baseline California	201	184	177	193	193	GWh	RPS Eligible
Wind New PG&E	-	-	-	-	-	GWh	RPS Eligible
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS Eligible
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS Eligible
Wind Wyoming	-	-	-	-	-	GWh	RPS Eligible
Wind New Mexico	-	-	39	39	39	GWh	RPS Eligible
Wind Offshore Morro Bay	-	-	-	25	25	GWh	RPS Eligible
Wind Offshore Humboldt	-	-	-	-	42	GWh	RPS Eligible
Solar Resources							
Solar Baseline California	117	87	69	55	53	GWh	RPS Eligible
Solar New PG&E	-	-	-	-	-	GWh	RPS Eligible
Solar New SCE SDG&E	-	147	186	219	219	GWh	RPS Eligible
Solar Distributed	-	-	-	-	-	GWh	RPS Eligible
Hybrid							
Hybrid_or_Paired_Solar_and_Battery	-	-	-	-	-	GWh	RPS Eligible
Storage & DR							
Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	738	842	930	924	MWh Energy Capacity	n/a
User-Specified Profies							
Storage Resource Custom Profile	-	-	4	4	4	MW	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS Eligible
GHG-free non-RPS Resource	-	-	-	-	-	GWh	GHG-Free
Coal							
Coal	-	-	-	-	-	GWh	n/a

Online and In-Development Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Valu

Online + In-Development Only

Resource	2028	2030	2035	2040	2045	Units	*RPS or GHG-Free*
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	-	-	-	-	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS
Biomass	-	-	-	-	-	GWh	RPS
Geothermal	2	2	30	26	25	GWh	RPS
Small Hydro	2	1	1	1	-	GWh	RPS
Wind Resources							
Wind Baseline California	169	169	158	128	128	GWh	RPS
Wind New PG&E	-	-	-	-	-	GWh	RPS
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS
Wind Wyoming	-	-	-	-	-	GWh	RPS
Wind New Mexico	-	-	-	-	-	GWh	RPS
Wind Offshore Morro Bay	-	-	-	-	-	GWh	RPS
Wind Offshore Humboldt	-	-	-	-	-	GWh	RPS
Solar Resources							
Solar Baseline California	65	61	38	2	-	GWh	RPS
Solar New PG&E	-	-	-	-	-	GWh	RPS
Solar New SCE SDG&E	-	-	-	-	-	GWh	RPS
Solar Distributed	-	-	-	-	-	GWh	RPS
Hybrid/Paired							
Hybrid or Paired Solar and Battery	-	-	-	-	-	GWh	RPS
Storage & DR							
Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	346	346	346	340	MWh Energy Capacity	n/a
User-Specified Profiles							
Storage Resource Custom Profile	-	-	-	-	-	MW	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS
GHG-free non-RPS Resource Custom Profile	-	-	-	-	-	GWh	GHG-Free
Coal							
Coal	-	-	-	-	-	GWh	n/a

Duplicated Contract IDs:	Entry with non-positive values:	Invalid resource error rows:	Rows missing required project viability associated data:	Rows missing required hybrid associated data:	Supertype Contract Status Error or Null Rows:	Transaction counterparty error rows:	Rows missing CSP GWh:	Rows with invalid buying_energy_capacity and csp_resource_category:	Rows missing MTR NQC:	Warning-total capacity is equal to or greater than generator plus storage MWs for rows:	Warning-contract with NQC equal to or greater than contracted capacity MWs:
										89	21
										90	22
										91	92
										92	93
										93	94
										94	126
										89	21

Step 1: Enter portfolio inputs for both portfolios from the Resource Data Template

Full Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option

Full Portfolio (Online + In-Development + Review + Planned)

Resource	2028	2030	2035	2040	2045	Units	Type
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	15	27	35	39	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS Eligible
Biomass	-	-	-	-	-	GWh	RPS Eligible
Geothermal	4	3	43	43	42	GWh	RPS Eligible
Small Hydro	3	2	2	3	1	GWh	RPS Eligible
Wind Resources							
Wind Baseline California	201	184	177	193	193	GWh	RPS Eligible
Wind New PG&E	-	-	-	-	-	GWh	RPS Eligible
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS Eligible
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS Eligible
Wind Wyoming	-	-	-	-	-	GWh	RPS Eligible
Wind New Mexico	-	-	39	39	39	GWh	RPS Eligible
Wind Offshore Morro Bay	-	-	-	25	25	GWh	RPS Eligible
Wind Offshore Humboldt	-	-	-	-	42	GWh	RPS Eligible
Solar Resources							
Solar Baseline California	117	87	69	55	53	GWh	RPS Eligible
Solar New PG&E	-	-	-	-	-	GWh	RPS Eligible
Solar New SCE SDG&E	-	147	186	219	219	GWh	RPS Eligible
Solar Distributed	-	-	-	-	-	GWh	RPS Eligible
Hybrid							
Hybrid_or_Paired_Solar_and_Battery	-	-	-	-	-	GWh	RPS Eligible
Storage & DR							
Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	738	842	930	924	MWh Energy Capacity	n/a
User-Specified Profies							
Storage Resource Custom Profile	-	-	4	4	4	MW	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS Eligible
GHG-free non-RPS Resource	-	-	-	-	-	GWh	GHG-Free
Coal							
Coal	-	-	-	-	-	GWh	n/a

Online and In-Development Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Valu

Online + In-Development Only

Resource	2028	2030	2035	2040	2045	Units	RPS or GHG-Free
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	-	-	-	-	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS
Biomass	-	-	-	-	-	GWh	RPS
Geothermal	2	2	30	26	25	GWh	RPS
Small Hydro	2	1	1	1	-	GWh	RPS
Wind Resources							
Wind Baseline California	169	169	158	128	128	GWh	RPS
Wind New PG&E	-	-	-	-	-	GWh	RPS
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS
Wind Wyoming	-	-	-	-	-	GWh	RPS
Wind New Mexico	-	-	-	-	-	GWh	RPS
Wind Offshore Morro Bay	-	-	-	-	-	GWh	RPS
Wind Offshore Humboldt	-	-	-	-	-	GWh	RPS
Solar Resources							
Solar Baseline California	65	61	38	2	-	GWh	RPS
Solar New PG&E	-	-	-	-	-	GWh	RPS
Solar New SCE SDG&E	-	-	-	-	-	GWh	RPS
Solar Distributed	-	-	-	-	-	GWh	RPS
Hybrid/Paired							
Hybrid or Paired Solar and Battery	-	-	-	-	-	GWh	RPS
Storage & DR							
Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	346	346	346	340	MWh Energy Capacity	n/a
User-Specified Profiles							
Storage Resource Custom Profile	-	-	-	-	-	MW	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS
GHG-free non-RPS Resource Custom Profile	-	-	-	-	-	GWh	GHG-Free
Coal							
Coal	-	-	-	-	-	GWh	n/a

Step 2: Select a portfolio to run view the results

Select a portfolio to run:	Full Portfolio (Online + In-Development + Review + Planned)

Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option

Resource	2028	2030	2035	2040	2045	Units	RPS or GHG-Free
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	15	27	35	39	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS
Biomass	-	-	-	-	-	GWh	RPS
Geothermal	4	3	43	43	42	GWh	RPS
Small Hydro	3	2	2	3	1	GWh	RPS
Wind Resources							
Wind Baseline California	201	184	177	193	193	GWh	RPS
Wind New PG&E	-	-	-	-	-	GWh	RPS
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS
Wind Wyoming	-	-	-	-	-	GWh	RPS
Wind New Mexico	-	-	39	39	39	GWh	RPS
Wind Offshore Morro Bay	-	-	-	25	25	GWh	RPS
Wind Offshore Humboldt	-	-	-	-	42	GWh	RPS
Solar Resources							
Solar Baseline California	117	87	69	55	53	GWh	RPS
Solar New PG&E	-	-	-	-	-	GWh	RPS
Solar New SCE SDG&E	-	147	186	219	219	GWh	RPS
Solar Distributed	-	-	-	-	-	GWh	RPS
Hybrid/Paired							
Hybrid or Paired Solar and Battery	-	-	-	-	-	GWh	RPS
Storage & DR							
Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	738	842	930	924	MWh Energy Capacity	n/a
User-Specified Profiles							
Storage Resource Custom Profile	-	-	4	4	4	MW Power Capacity	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS
GHG-free non-RPS Resource Custom Profile	-	-	-	-	-	GWh	GHG-Free
Coal							
Coal	-	-	-	-	-	GWh	n/a

Calculated Share of IFM CHP - do not edit

IFM CHP	15	13	14	-	-	GWh	n/a

Checks	2028	2030	2035	2040	2045
No negative supply inputs	TRUE	TRUE	TRUE	TRUE	TRUE
Storage Resource Custom Profile does not produce power on a net basis	TRUE	TRUE	TRUE	TRUE	TRUE
Storage Resource Custom Profile has values between -1 and 1	TRUE	TRUE	TRUE	TRUE	TRUE
Sum of hourly RPS Resource Custom Profile equals annual input	TRUE	TRUE	TRUE	TRUE	TRUE
Sum of hourly GHG-free non-RPS Resource Custom Profile equals annual input	TRUE	TRUE	TRUE	TRUE	TRUE

Demand Inputs

		Units	2028	2030	2035	2040	2045	Notes
Managed Retail Sales Forecast (assigned to LSE)		GWh	400.13	438.16	534.98	597.91	635.81	Must be entered regardless of demand modifiers selected. Includes impact of BTM PV, Energy Effic
Behind-The-Meter Photovoltaics (BTM PV) Forecast (assigned to LSE)		GWh	47	53	65	70	76	Measured at customer, not grossed up for T&D losses
Retail Sales without BTM PV reduction		GWh	448	491	600	668	711	Used to allocate demand modifiers
Behind-The-Meter Photovoltaics (BTM PV) grossed up for T&D losses		GWh	51	58	70	76	82	At generator bus-bar
Calculated share of CAISO system demand (% of Retail Sales)		%	0%	0%	0%	0%	0%	Do not edit

Commercial & Industrial Fraction of Baseline Demand	*Use Custom?*	Units	2028	2030	2035	2040	2045	Notes
Default C&I Percentage of Total	Yes	%	51%	52%	55%	55%	55%	Default, do not change. Does not include demand from Light Duty EVs.
Custom C&I Percentage of Total (OPTIONAL)		%	45%	45.00%	45.00%	45.00%	45.00%	Will be used instead of default if "Use Custom?" = Yes

Calculated Demand, based on sales-weighted share of total from IEPR		Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load		GWh	435	441	463	480	488	Grossed up for T&D losses; demand met by BTM CHP excluded
Electric Vehicle Load		GWh	28	48	104	147	176	Grossed up for T&D losses
Building Electrification		GWh	13	24	52	62	71	Grossed up for T&D losses
Energy Efficiency		GWh	(12)	(14)	(19)	(18)	(19)	Grossed up for T&D losses
Data Center Load		GWh	21	34	48	51	52	Grossed up for T&D losses
Climate Change Impact Load Increases		GWh	1	2	3	5	6	Grossed up for T&D losses
Climate Change Impact Load Decreases		GWh	(0)	(0)	(1)	(1)	(1)	Grossed up for T&D losses
Behind-The-Meter Photovoltaics (BTM PV)		GWh	(51)	(58)	(70)	(76)	(82)	Grossed up for T&D losses
Behind-The-Meter Storage Losses (BTM Storage)		GWh	1	1	1	1	1	Grossed up for T&D losses
Behind-The-Meter Storage Capacity (BTM Storage)		Nameplate MW	7	9	11	12	14	For information only
Custom Demand Inputs (OPTIONAL; overwrites sales-weighted IEPR values from Calculated Demand sec	*Use Custom?*	Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load	No	GWh						To overwrite, set "Use Custom" to "Yes" and input forecast. For use in Alternative Plans only.
Electric Vehicle Load	No	GWh						Custom demand values should be grossed up for T&D losses.
Building Electrification	No	GWh						User-specified demand profiles should be input in the "Custom Profiles" tab.
Energy Efficiency	No	GWh						Energy efficiency and BTM PV subtract from demand and therefore should be entered as
Data Center Load	No	GWh						negative values.
Climate Change Impact Load Increases	No	GWh						
Climate Change Impact Load Decreases	No	GWh						Demand categories should be non-overlapping (e.g., baseline net energy for load does not inclue
Behind-The-Meter Photovoltaics (BTM PV)	No	GWh						EV load, climage change impacts, etc.)
Behind-The-Meter Storage Capacity (BTM Storage)	No	Nameplate MW						Custom BTM storage should be entered in terms of Nameplate MW
Behind-The-Meter Storage Losses (BTM Storage)		GWh						
Active Demand Inputs	*Source*	Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load	IEPR	GWh	435	441	463	480	488	Grossed up for T&D losses; demand met by BTM CHP excluded
Non-commercial/industrial portion of baseline (included in baseline total)	Custom	GWh	239	242	255	264	268	Grossed up for T&D losses; demand met by BTM CHP excluded
Commercial/industrial portion of baseline (included in baseline total)	Custom	GWh	196	198	208	216	220	Grossed up for T&D losses; demand met by BTM CHP excluded
Electric Vehicle Load	IEPR	GWh	28	48	104	147	176	Grossed up for T&D losses
Building Electrification	IEPR	GWh	13	24	52	62	71	Grossed up for T&D losses
Energy Efficiency	IEPR	GWh	(12)	(14)	(19)	(18)	(19)	Grossed up for T&D losses
Data Center Load	IEPR	GWh	21	34	48	51	52	Grossed up for T&D losses
Climate Change Impact Load Increases	IEPR	GWh	1	2	3	5	6	Grossed up for T&D losses
Climate Change Impact Load Decreases	IEPR	GWh	(0)	(0)	(1)	(1)	(1)	Grossed up for T&D losses
Behind-The-Meter Photovoltaics (BTM PV)	IEPR	GWh	(51)	(58)	(70)	(76)	(82)	Grossed up for T&D losses
Behind-The-Meter Storage Losses (BTM Storage)	IEPR	GWh	1	1	1	1	1	Grossed up for T&D losses

Calculated demand at utility-scale generator bus-bar		GWh	435	477	582	651	692	Total of "Active Demand Inputs"
Total Load (demand at utility-scale generator bus-bar + BTM PV)		GWh	487	534	652	727	774	For reference

IFM CHP Calculation			2028	2030	2035	2040	2045	
CASIO-wide In front of the meter (IFM) Combined Heat and Power (CHP) generation		GWh	8347	7644	7705	0	0	Input data - do not change. Values are from SERVM disparch
LSE share of IFM CHP		GWh	15	13	14	-	-	Calculation - do not change

Checks	2028	2030	2035	2040	2045
Correct sign (positive/negative) on demand inputs	TRUE	TRUE	TRUE	TRUE	TRUE
If custom C&I percentage is used, positive percentage is used	TRUE	TRUE	TRUE	TRUE	TRUE

Custom Demand Shapes (OPTIONAL; overwrites default demand shapes)	Custom Hourly Demand Profiles							
Use Custom Shape?	No	No	No	No	No	No	No	No

	2030	2035	2040	2045	2030	2035	2040	2045	2030	2035	2040	2045	2030	2035	2040	2045
LSEs within Utility Territory	**2030 GHG Emissions Benchmark (MMT)**	**2035 GHG Emissions Benchmark (MMT)**	**2040 GHG Emissions Benchmark (MMT)**	**2045 GHG Emissions Benchmark (MMT)**	**2030 DA Sales (GWh)**	**2035 DA Sales (GWh)**	**2040 DA Sales (GWh)**	**2045 DA Sales (GWh)**	**ESP 2030 sales within each IOU territory (GWh)**	**ESP 2035 sales within each IOU territory (GWh)**	**ESP 2040 sales within each IOU territory (GWh)**	**ESP 2045 sales within each IOU territory (GWh)**	**ESP 2030 benchmark for each IOU territory (MMT)**	**ESP 2035 benchmark for each IOU territory (MMT)**	**ESP 2040 benchmark for each IOU territory (MMT)**	**ESP 2045 benchmark for each IOU territory (MMT)**
Pacific Gas & Electric Company (Direct Access)	*0.9185*	*0.5888*	*0.4447*	*0.2156*	*11,393*	*11,393*	*11,393*	*11,393*					*0.000*	*0.000*	*0.000*	*0.000*
Southern California Edison Company (Direct Access)	*1.1123*	*1.1123*	*1.1123*	*1.1123*	*12,230*	*12,230*	*12,230*	*12,230*					*0.000*	*0.000*	*0.000*	*0.000*
San Diego Gas & Electric Company (Direct Access)	*0.4392*	*0.4392*	*0.4392*	*0.4392*	*3,942*	*3,942*	*3,942*	*3,942*					*0.000*	*0.000*	*0.000*	*0.000*
TOTAL									*0*	*0*	*0*	*0*	*0.000*	*0.000*	*0.000*	*0.000*

Each ESP is required to calculate its own confidential GHG Emissions Benchmark based on its 2030, 2035, 2040, and 2045 load share within the host IOU's territory. For any ESP that serves load in more than one IOU service territory, that ESP should add up the separate GHG Emissions Benchmarks calculated based on its share of direct access load for each IOU service territory to result in a single benchmark.When filling out Columns F through 2045 -- "ESP 20## load within each IOU territory" -- each ESP should utilize the confidential load forecast communicated to it by Energy Division staff.

Emissions Summary

Emissions Total	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
CO_2	*MMt/yr*	*0.036*	*0.002*	*(0.011)*	*(0.020)*	*(0.005)*	*Includes both in-CAISO and import emissions*
PM2.5	*tonnes/yr*	*2.2*	*0.1*	*(1.0)*	*(1.4)*	*(0.3)*	*Only In-CAISO emissions*
SO_2	*tonnes/yr*	*0.2*	*0.0*	*(0.1)*	*(0.1)*	*(0.0)*	*Only In-CAISO emissions*
NOx	*tonnes/yr*	*3.4*	*1.5*	*(0.0)*	*(0.1)*	*(0.3)*	*Only In-CAISO emissions*

Emissions by resource type

CO_2	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Coal	*MMt/yr*	-	-	-	-	-	*Included in GHG emissions total*
IFM CHP	*MMt/yr*	*0.01*	*0.01*	*0.01*	-	-	
Biogas	*MMt/yr*	-	-	-	-	-	
Biomass	*MMt/yr*	-	-	-	-	-	
System Power Unadjusted	*MMt/yr*	*0.03*	*(0.01)*	*(0.02)*	*(0.02)*	*(0.01)*	*Includes emissions from in-CAISO dispatchable gas and unspecified imports*
System Power	*MMt/yr*	*0.03*	*(0.01)*	*(0.02)*	*(0.02)*	*(0.01)*	*Includes emissions from in-CAISO dispatchable gas and unspecified imports. After CSP - RESOLVE adjustment.*
Asset Controlling Supplier	*MMt/yr*	-	-	-	-	-	
Total	***MMt/yr***	*0.04*	*0.00*	*(0.01)*	*(0.02)*	*(0.01)*	*Includes both in-CAISO and import emissions*
Average emissions intensity	*tCO2/MWh*	*0.089*	*0.004*	*(0.021)*	*(0.033)*	*(0.009)*	*Emissions per MWh of sales*
Oversupply Emissions Credits	*MMt/yr*	*0.02*	*0.05*	*0.06*	*0.06*	*0.04*	*When hourly supply exceeds hourly load and system power is on the margin, LSE recieves credit at the system power emissions rate. Impact included in Total.*

PM2.5	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Coal	*tonnes/yr*	-	-	-	-	-	*Information only, not included in total*
IFM CHP	*tonnes/yr*	*0*	*0*	*0*	-	-	
Biogas	*tonnes/yr*	-	-	-	-	-	
Biomass	*tonnes/yr*	-	-	-	-	-	
System Power	*tonnes/yr*	*2*	*(0)*	*(1)*	*(1)*	*(0)*	*In-CAISO emissions only - unspecified import emissions excluded*
Total	***tonnes/yr***	*2*	*0*	*(1)*	*(1)*	*(0)*	*Only In-CAISO emissions*
Average emissions intensity	*kg/MWh*	*0.0055*	*0.0001*	*(0.0018)*	*(0.0023)*	*(0.0005)*	*Emissions per MWh of sales*

SO_2	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Coal	*tonnes/yr*	-	-	-	-	-	*Information only, not included in total*
IFM CHP	*tonnes/yr*	*0*	*0*	*0*	-	-	
Biogas	*tonnes/yr*	-	-	-	-	-	
Biomass	*tonnes/yr*	-	-	-	-	-	
System Power	*tonnes/yr*	*0*	*(0)*	*(0)*	*(0)*	*(0)*	*In-CAISO emissions only - unspecified import emissions excluded*
Total	***tonnes/yr***	*0*	*0*	*(0)*	*(0)*	*(0)*	*Only In-CAISO emissions*
Average emissions intensity	*kg/MWh*	*0.0005*	*0.0000*	*(0.0001)*	*(0.0002)*	*(0.0000)*	*Emissions per MWh of sales*

NOx	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Coal	*tonnes/yr*	-	-	-	-	-	*Information only, not included in total*
IFM CHP	*tonnes/yr*	*1*	*1*	*1*	-	-	
Biogas	*tonnes/yr*	-	-	-	-	-	
Biomass	*tonnes/yr*	-	-	-	-	-	
System Power	*tonnes/yr*	*2*	*0*	*(1)*	*(0)*	*(0)*	*In-CAISO emissions only - unspecified import emissions excluded*
Total	***tonnes/yr***	*3*	*2*	*(0)*	*(0)*	*(0)*	*Only In-CAISO emissions*
Average emissions intensity	*kg/MWh*	*0.0086*	*0.0034*	*(0.0000)*	*(0.0002)*	*(0.0005)*	*Emissions per MWh of sales*

Supply and Demand Balance

Demand Summary	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	
Managed Retail Sales Forecast (assigned to LSE)	*GWh*	*400*	*438*	*535*	*598*	*636*	*Sales forecast (before T&D losses increase demand at generator bus-bar)*
Baseline Demand, non-C&I	*GWh*	*239*	*242*	*255*	*264*	*268*	
Baseline Demand, C&I	*GWh*	*196*	*198*	*208*	*216*	*220*	
Electric Vehicle Load	*GWh*	*28*	*48*	*104*	*147*	*176*	
Building Electrification	*GWh*	*13*	*24*	*52*	*62*	*71*	
Energy Efficiency	*GWh*	*(12)*	*(14)*	*(19)*	*(18)*	*(19)*	*Summary of active inputs from Demand Inputs tab*
Data Center Load	*GWh*	*21*	*34*	*48*	*51*	*52*	
Climate Change Impact	*GWh*	*1*	*2*	*3*	*5*	*6*	
BTM PV	*GWh*	*(51)*	*(58)*	*(70)*	*(76)*	*(82)*	
Demand (at generator bus-bar)	*GWh*	*435*	*477*	*582*	*651*	*692*	

Supply Summary	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Large Hydro	*GWh*	*13*	*13*	*13*	*13*	*13*	
Imported Hydro	*GWh*	-	*15*	*27*	*35*	*39*	
Asset Controlling Supplier	*GWh*	-	-	-	-	-	
Nuclear	*GWh*	*25*	*25*	*25*	*25*	*25*	
Biogas	*GWh*	-	-	-	-	-	
Biomass	*GWh*	-	-	-	-	-	
Geothermal	*GWh*	*4*	*3*	*43*	*43*	*42*	
Small Hydro	*GWh*	*3*	*2*	*2*	*3*	*1*	
Wind CAISO	*GWh*	*201*	*184*	*177*	*193*	*193*	
Wind Out Of State	*GWh*	-	-	*39*	*39*	*39*	*Wind and solar values represent production potential (pre-curtailment).*
Wind Offshore	*GWh*	-	-	-	*25*	*67*	*Curtailment is calculated at the portfolio level (as opposed to the resource level), and is included as a line item below*
Solar Utility Scale	*GWh*	*117*	*233*	*255*	*274*	*272*	
Solar Distributed	*GWh*	-	-	-	-	-	*Distributed solar generation that is in front of the meter*
Hybrid or Paired Solar and Battery	*GWh*	-	-	-	-	-	
Shed DR	*GWh*	-	-	-	-	-	
Pumped Storage	*GWh*	-	-	-	-	-	*Negative because storage losses represent net negative energy production*
Battery Storage	*GWh*	*(12)*	*(38)*	*(44)*	*(48)*	*(47)*	*Negative because storage losses represent net negative energy production*
Storage Resource Custom Profile	*GWh*	-	-	*(3)*	*(4)*	*(4)*	*Negative because storage losses represent net negative energy production*
RPS Resource Custom Profile	*GWh*	-	-	-	-	-	
GHG-free non-RPS Resource Custom Profile	*GWh*	-	-	-	-	-	
Coal	*GWh*	-	-	-	-	-	
IFM CHP	*GWh*	*15*	*13*	*14*	-	-	

Supply Demand Balance Summary	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
LSE Supply, before curtailment and exports	*GWh*	*365*	*452*	*548*	*598*	*641*	*Represents LSE's net power production, before curtailment and exports reduce the power available to dispace CAISO dispatchable gas/unspecified imports*
Net Purchases, before curtailment and exports	*GWh*	*70*	*25*	*34*	*53*	*51*	*The net system power that the LSE would consume (positive = consume from system, negative = supply to system) if dispatchable gas/unspecified imports were on the margin at the system level in all hours. For information only - not directl*
Curtailment	*GWh*	*(15)*	*(21)*	*(17)*	*(20)*	*(25)*	*Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be curtailed*
Exports	*GWh*	*(5)*	*(4)*	*(2)*	*(2)*	*(3)*	*Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be exported*
Zero Emissions Power From System	*GWh*	*15*	*67*	*110*	*140*	*144*	*Power supplied to meet LSE demand that does not incur emissions. Oversupply conditions at the system level result in surplus zero emissions power in some hours.*
Net System Power (incurs emissions)	***GWh***	*75*	*(18)*	*(57)*	*(65)*	*(65)*	*Power supplied by the system (or sent back to the system from if negative) in hours when CAISO dispatchable gas and/or unspecified imports are on the margin. The net system power produced or consumed is multiplied by the system pow*
Check: Supply equals demand		*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	

Renewable and GHG-Free %	***Unit***	**2028**	**2030**	**2035**	**2040**	**2045**	***Notes***
Retail Sales	GWh	*400*	*438*	*535*	*598*	*636*	
RPS-Eligible Delivered Renewable	GWh	*310*	*402*	*499*	*558*	*589*	Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.
GHG free	GWh	*363*	*522*	*675*	*770*	*810*	A small fraction of Asset Controlling Supplier imports are not counted as GHG-free
RPS-Eligible Delivered Renewable Percentage	*% of retail sales*	*77%*	*92%*	*93%*	*93%*	*93%*	Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.
GHG-free Percentage	*% of retail sales*	*91%*	*119%*	*126%*	*129%*	*127%*	